

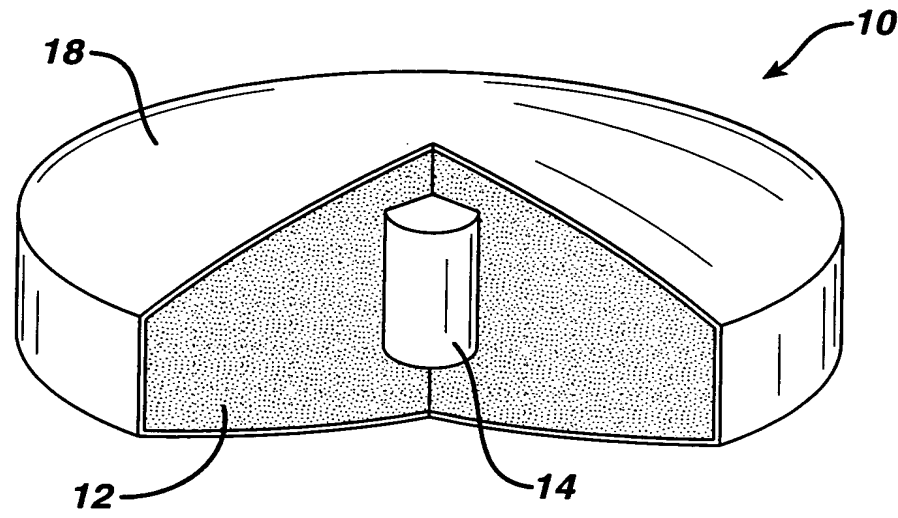


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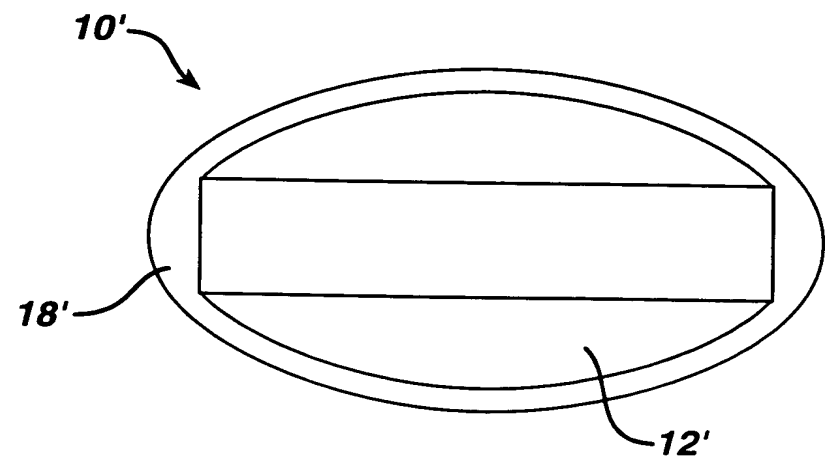
TITLE: THERMAL CYCLE MOLDING  
INVENTOR(S): Sowden, et al.  
APP#: 09/966,497  
ATTY: S. E. Hayner TEL. #: 732-524-2242  
DOCKET #: MCP-0294 CUST. #: 000027777

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**FIG. 1A**



**FIG. 1B**

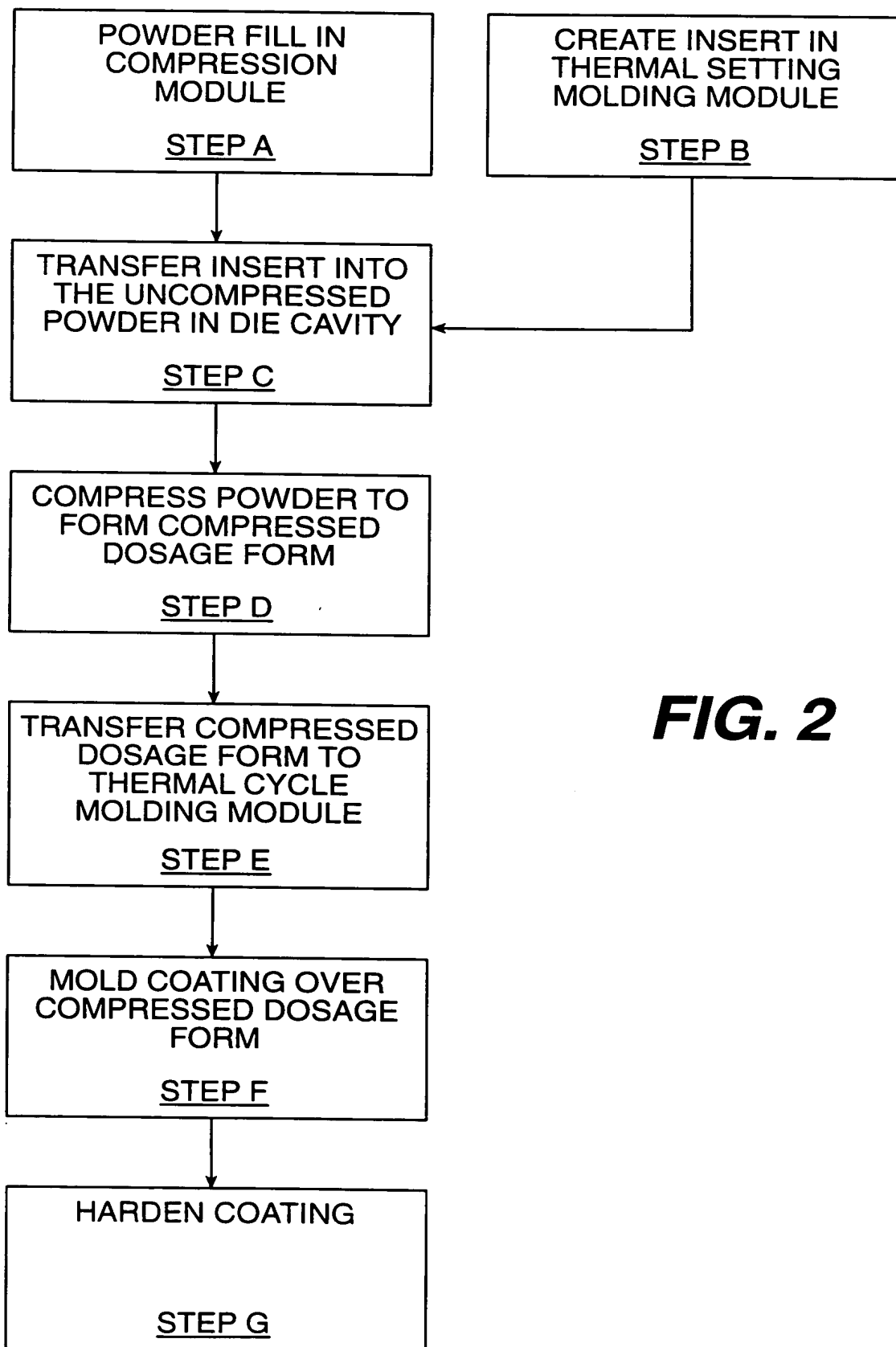




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TITLE: THERMAL CYCLE MOLDING  
INVENTOR(S): Sowden, et al.  
APP#: 09/966,497  
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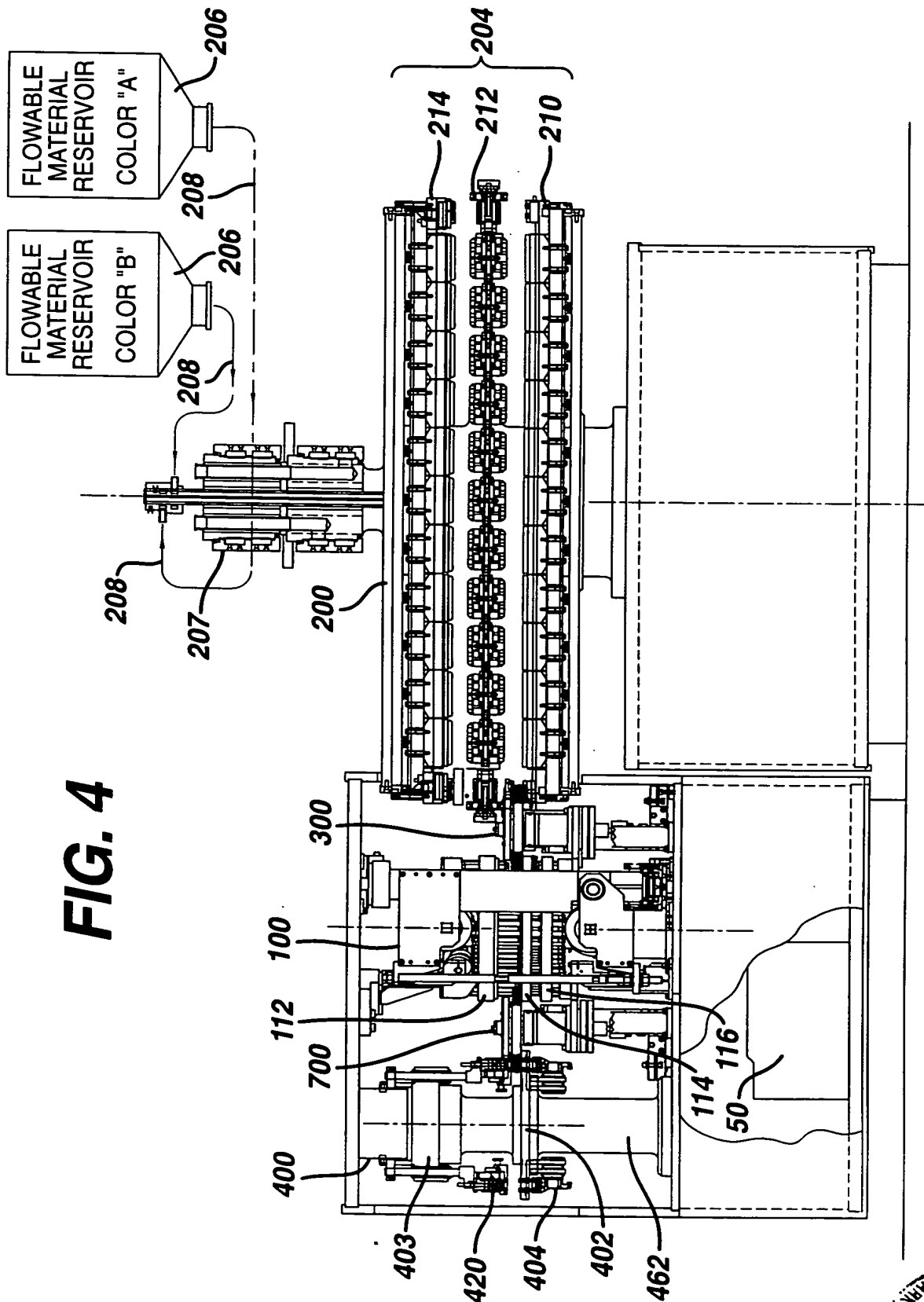
**FIG. 2**



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 INVENTOR(S): Sowden, et al.  
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 ATTY: S. E. Hayner TEL. #: 732-524-2242  
 DOCKET #: MCP-0294 CUST. #: 000027777

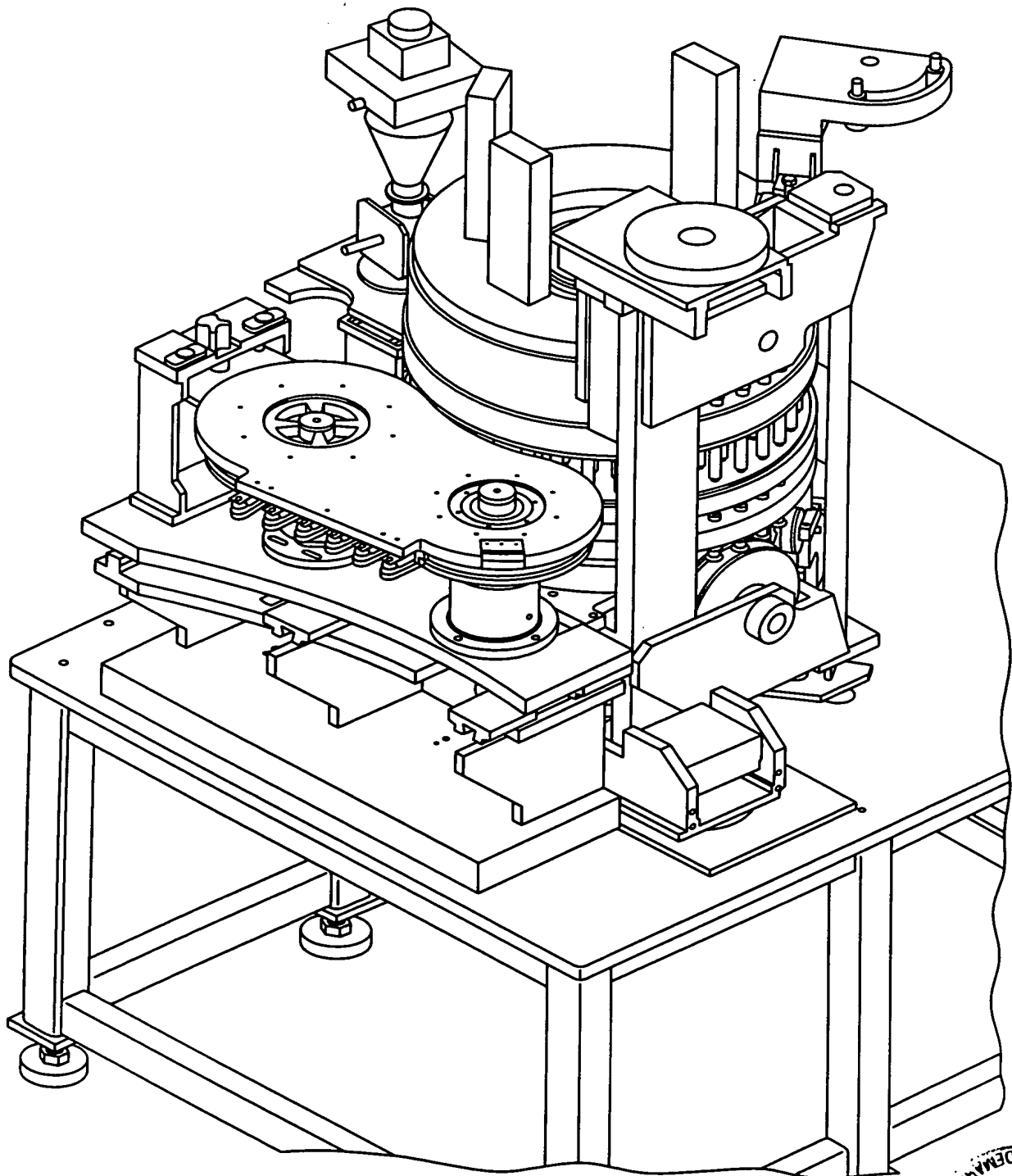
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FIG. 4



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INVENTOR(S): Sowden, et al.  
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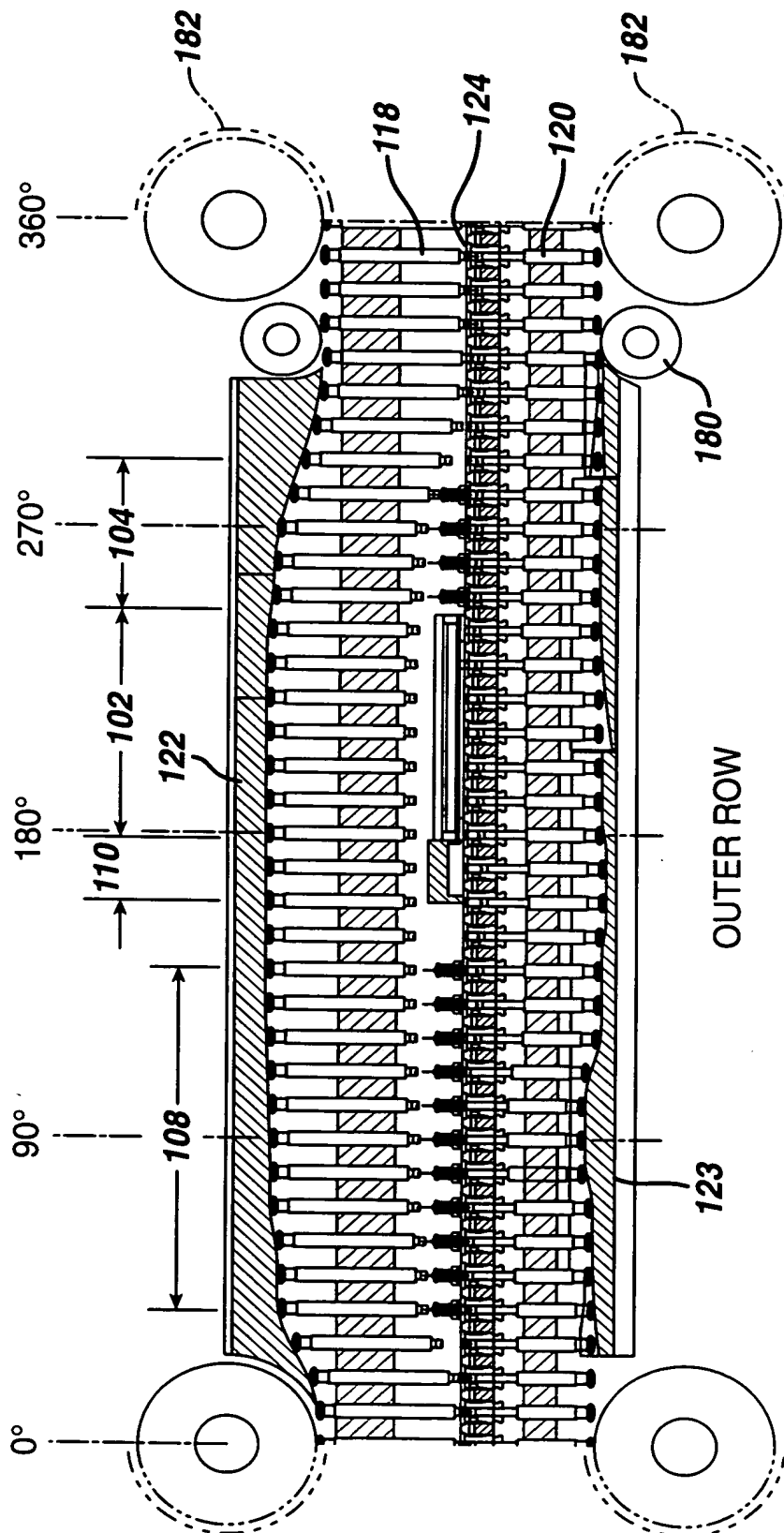
**FIG. 5**



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 INVENTOR(S): Sowden, et al.  
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 ATTY: S. E. Hayner TEL. #: 732-524-2242  
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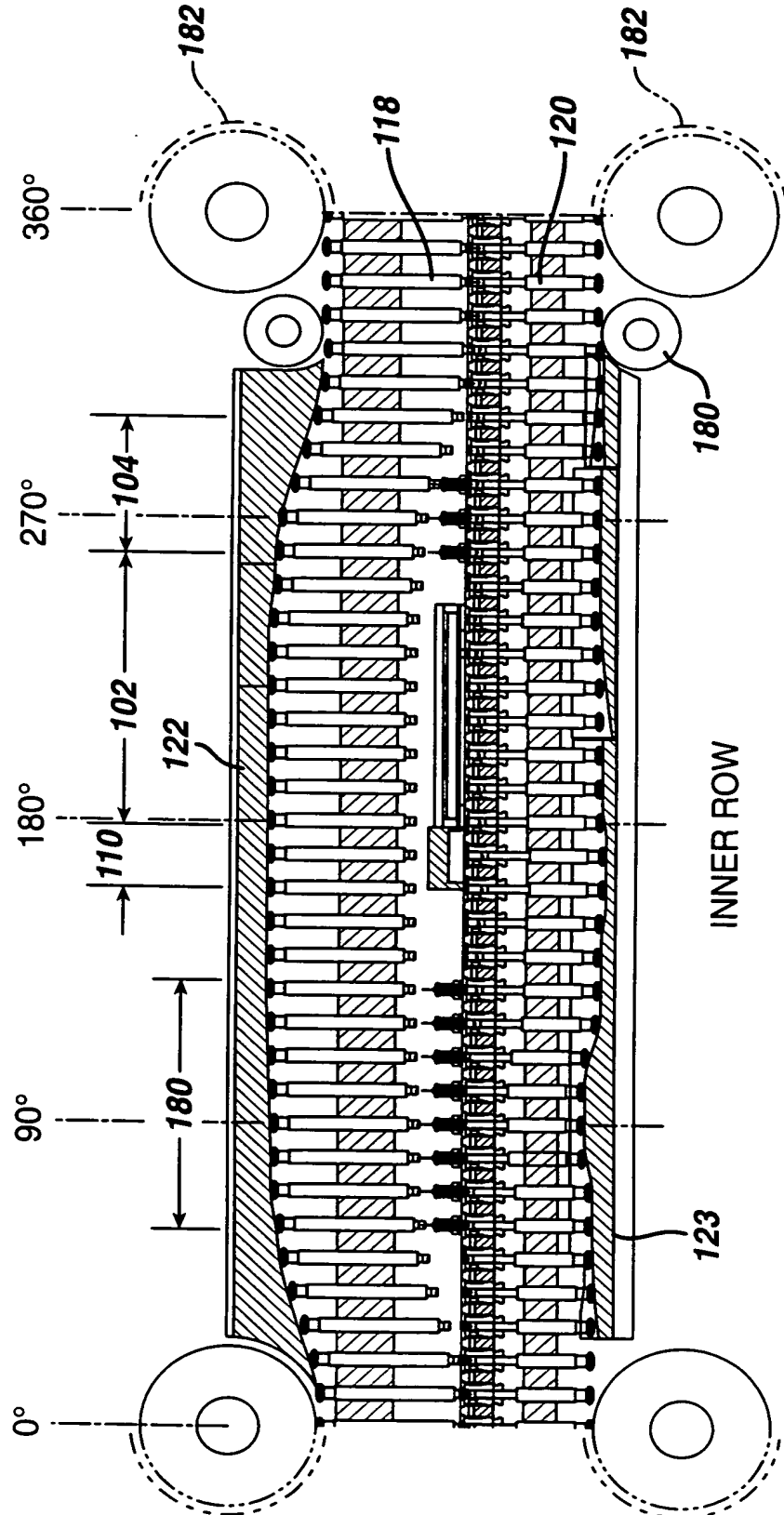
FIG. 7



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 INVENTOR(S): Sowden, et al.  
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FIG. 8

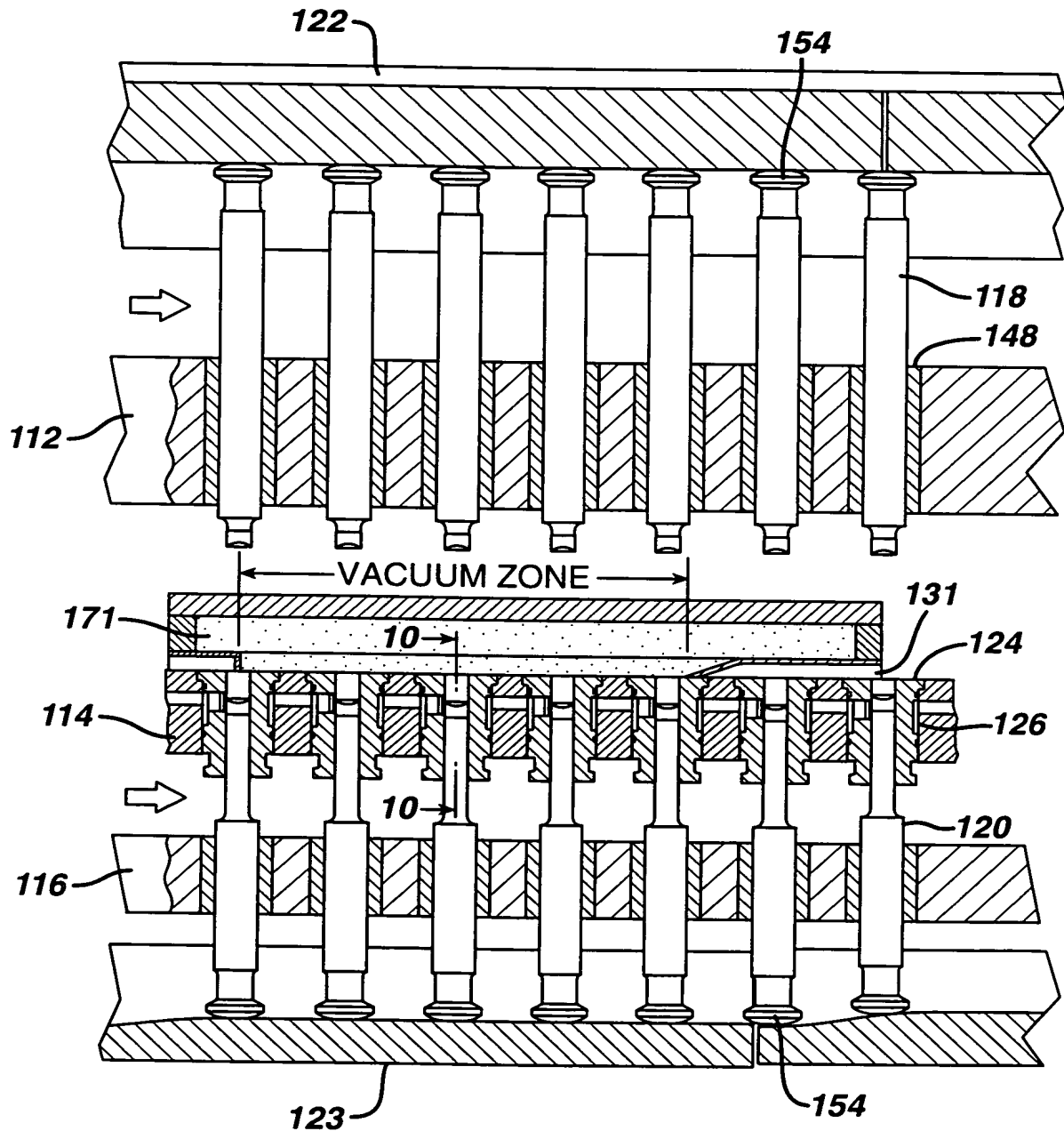




TITLE: THERMAL CYCLE MOLDING  
INVENTOR(S): Sowden, et al.  
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**FIG. 9**

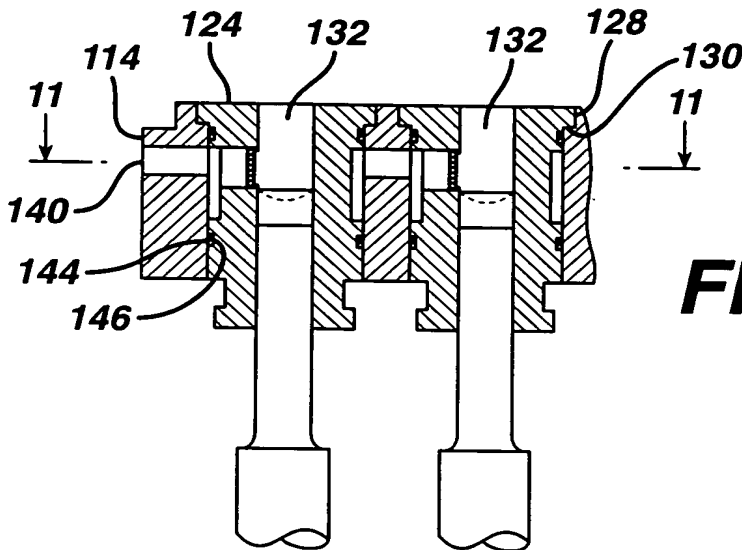




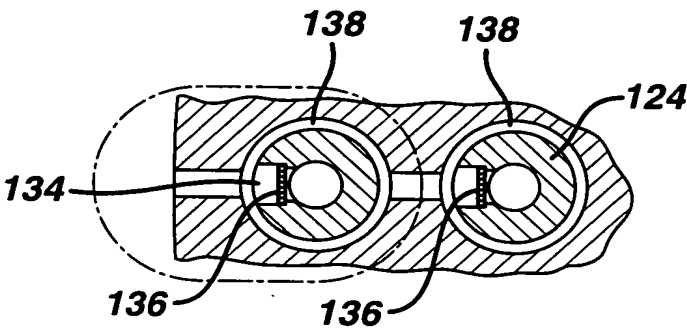
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TITLE: THERMAL CYCLE MOLDING  
INVENTOR(S): Sowden, et al.  
APP#: 09/966,497  
ATTY: S. E. Hayner TEL. #: 732-524-2242  
DOCKET #: MCP-0294 CUST. #: 000027777

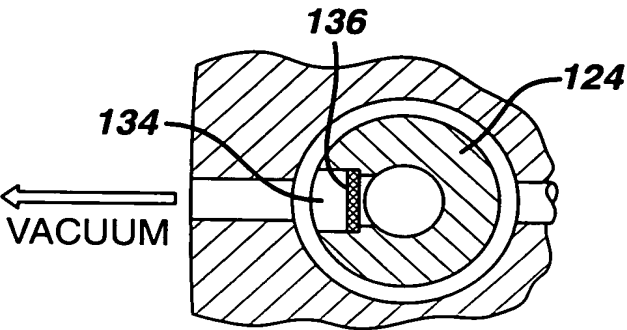
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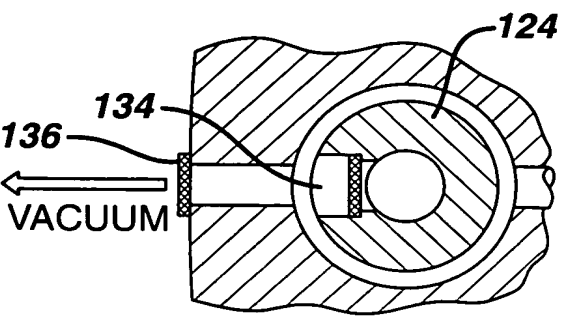
**FIG. 10**



**FIG. 11**



**FIG. 12**



**FIG. 12A**

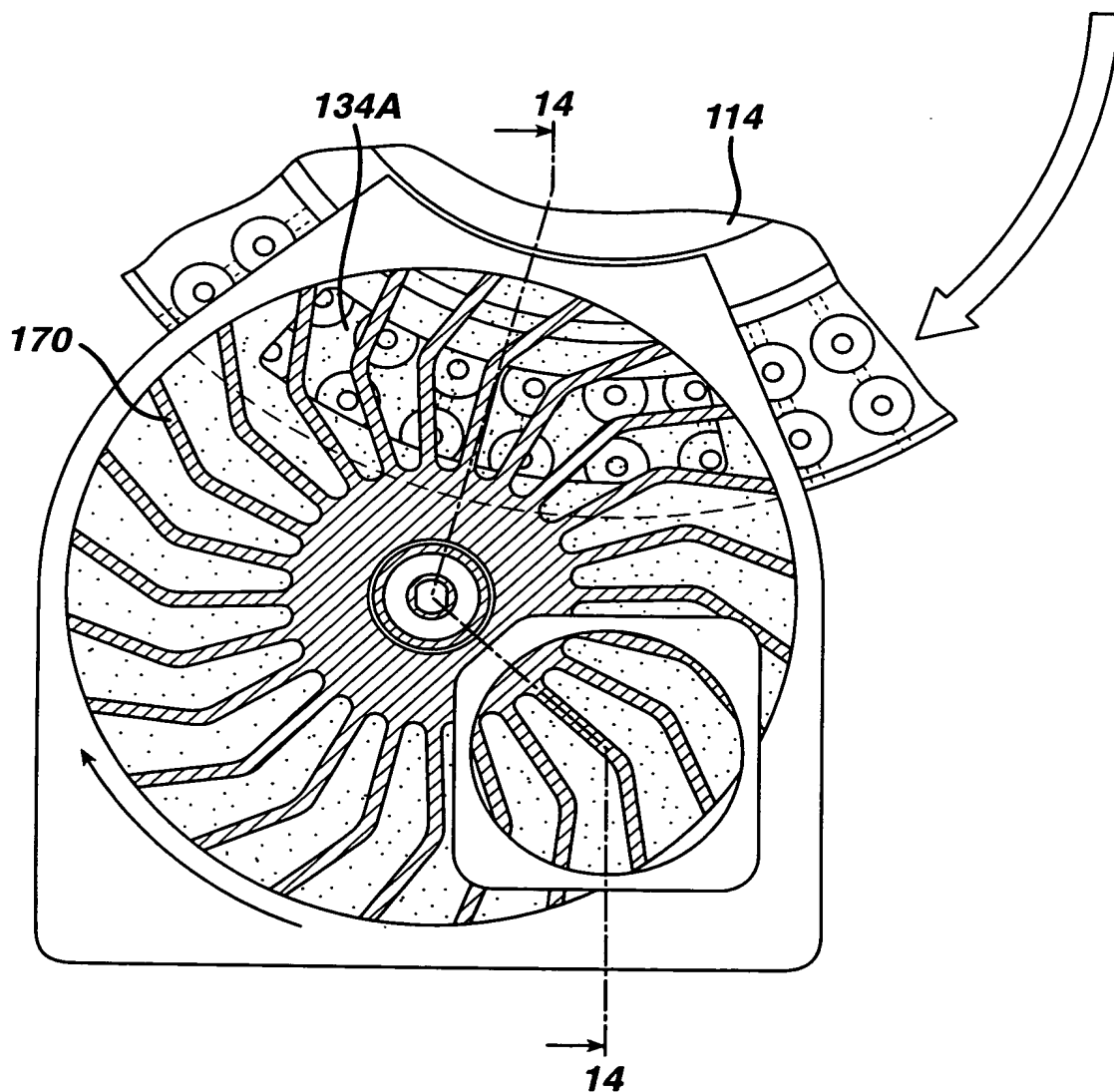


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**FIG. 13**



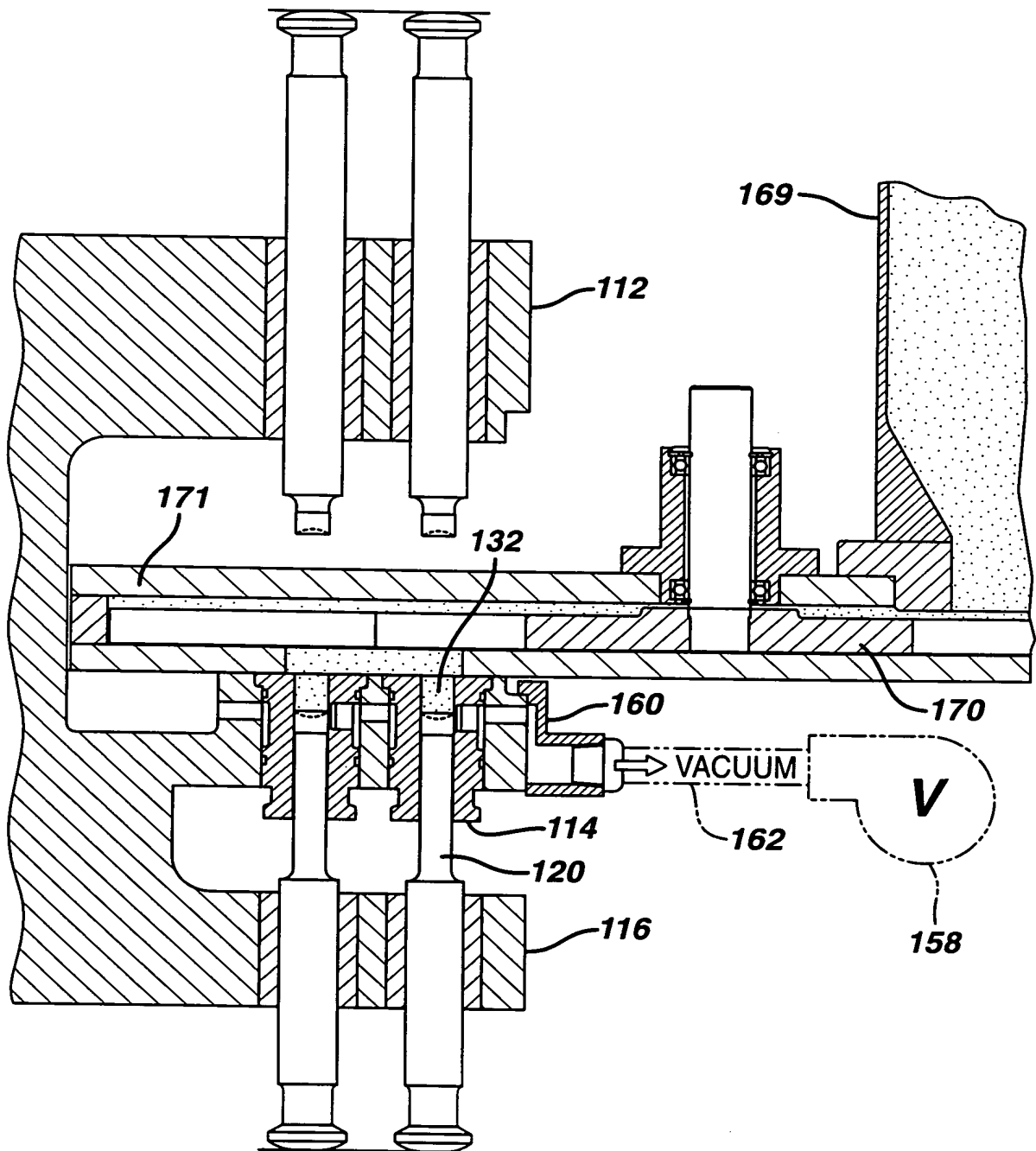


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TITLE: THERMAL CYCLE MOLDING  
INVENTOR(S): Sowden, et al.  
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**FIG. 14**

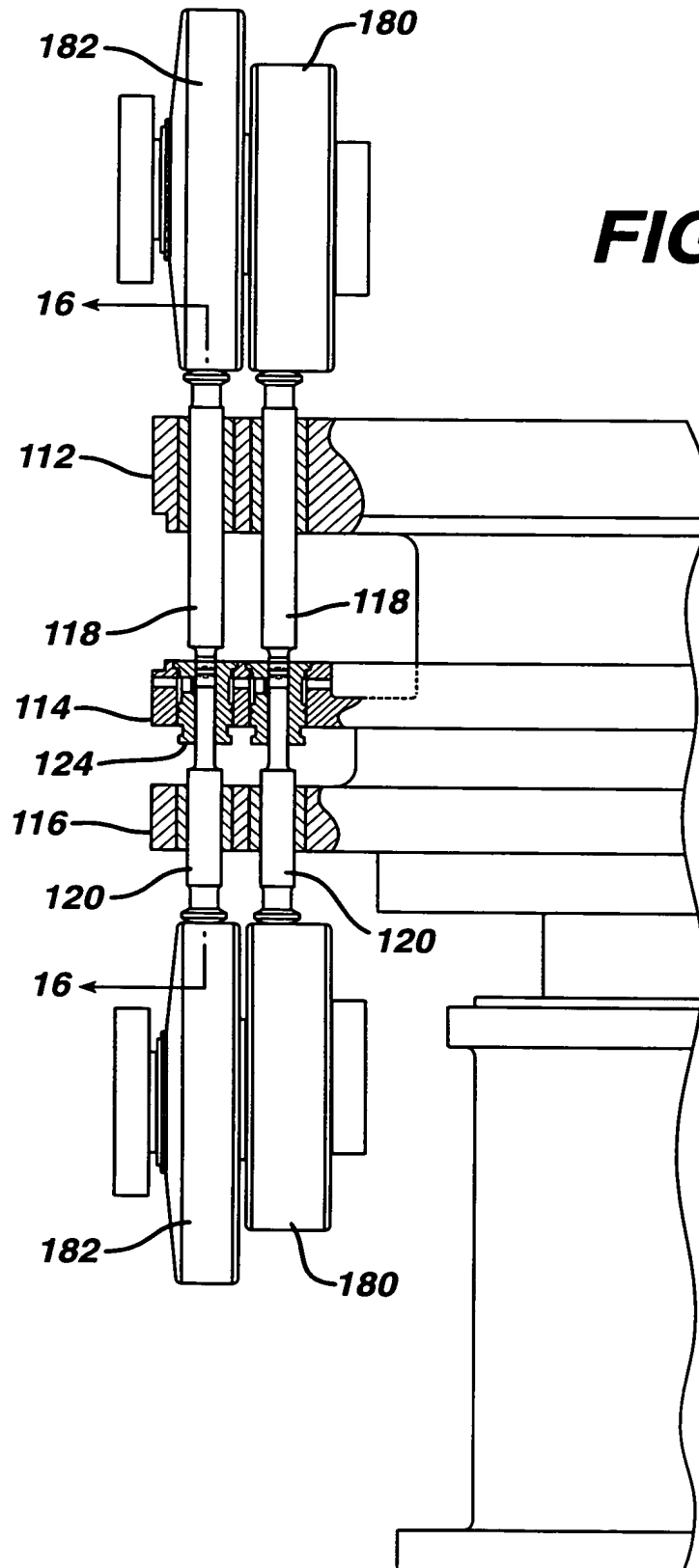




09966497 . 102902

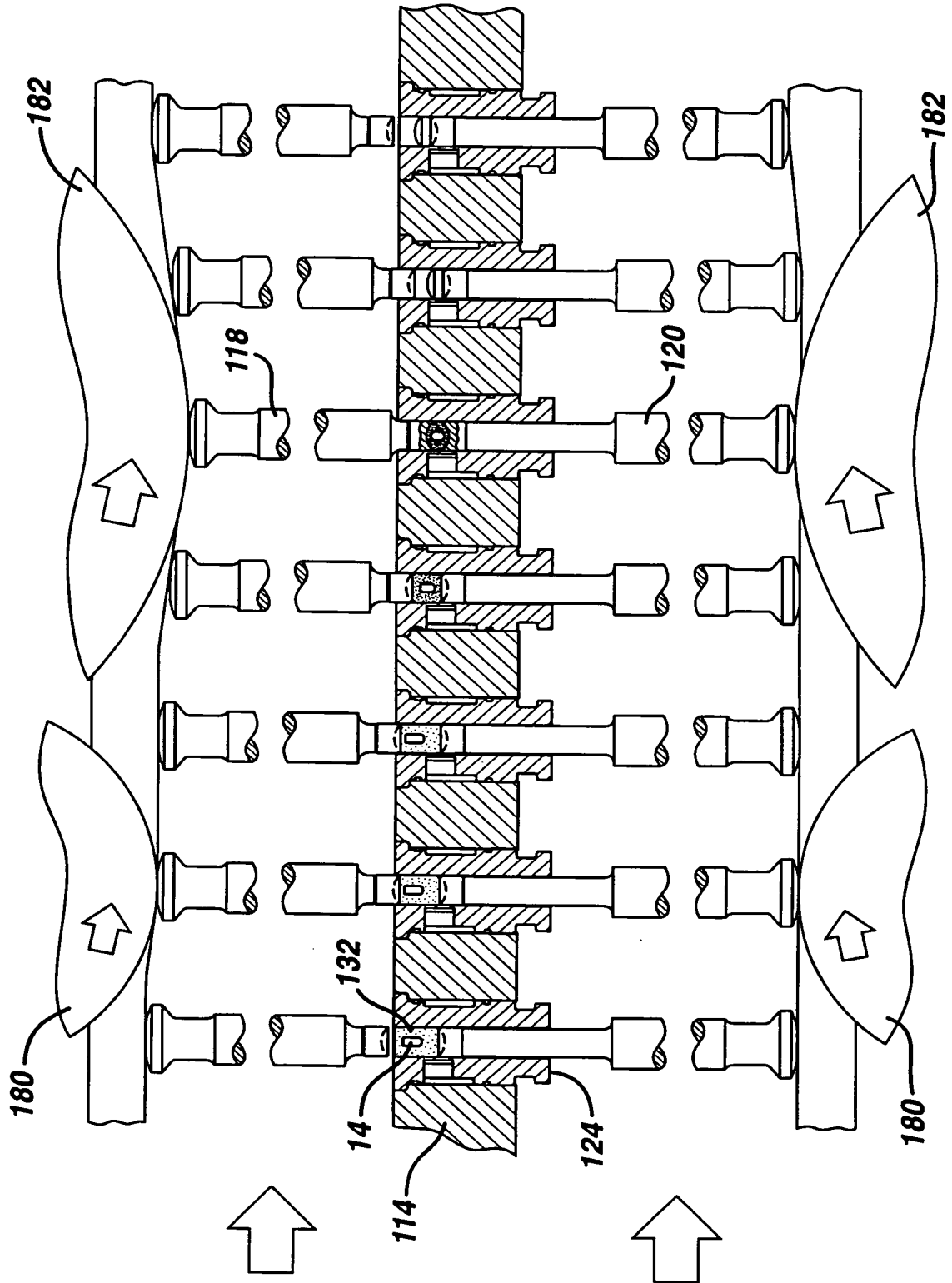
TITLE: THERMAL CYCLE MOLDING  
INVENTOR(S): Sowden, et al.  
APP#: 09/966,497  
ATTY: S. E. Hayner TEL. #: 732-524-2242  
DOCKET #: MCP-0294 CUST. #: 000027777

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**FIG. 15**

FIG. 16



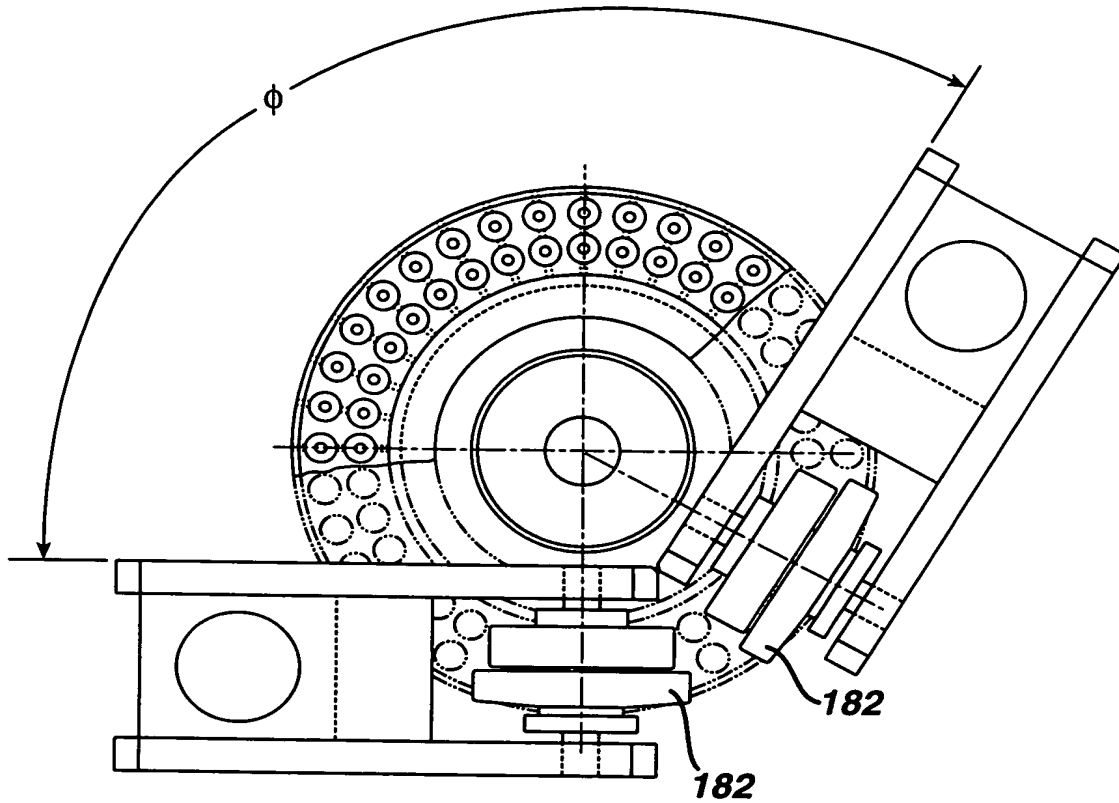


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INVENTOR(S): Sowden, et al.  
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**FIG. 17A**





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FIG. 17C

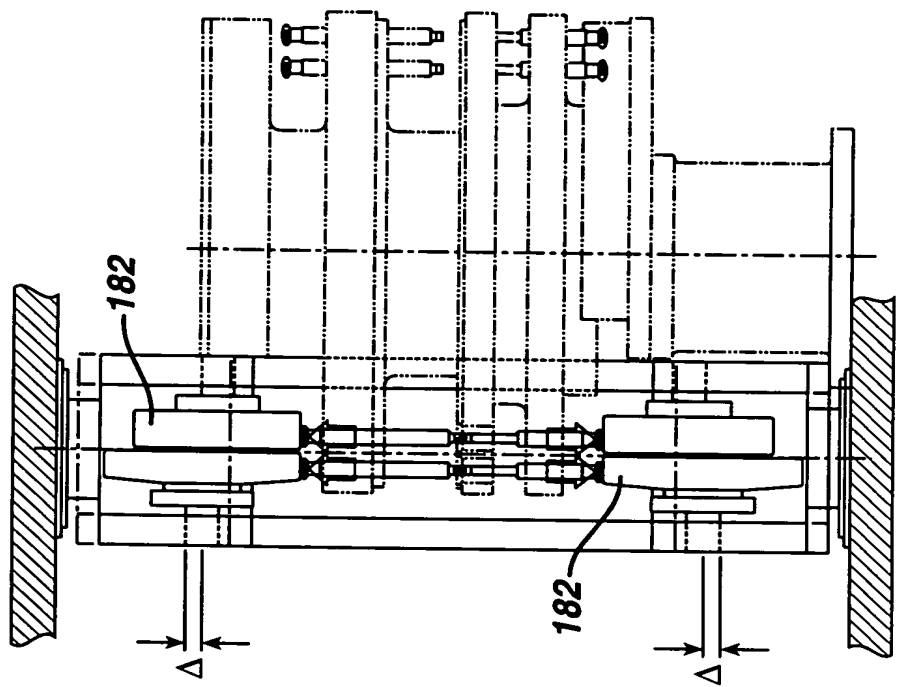
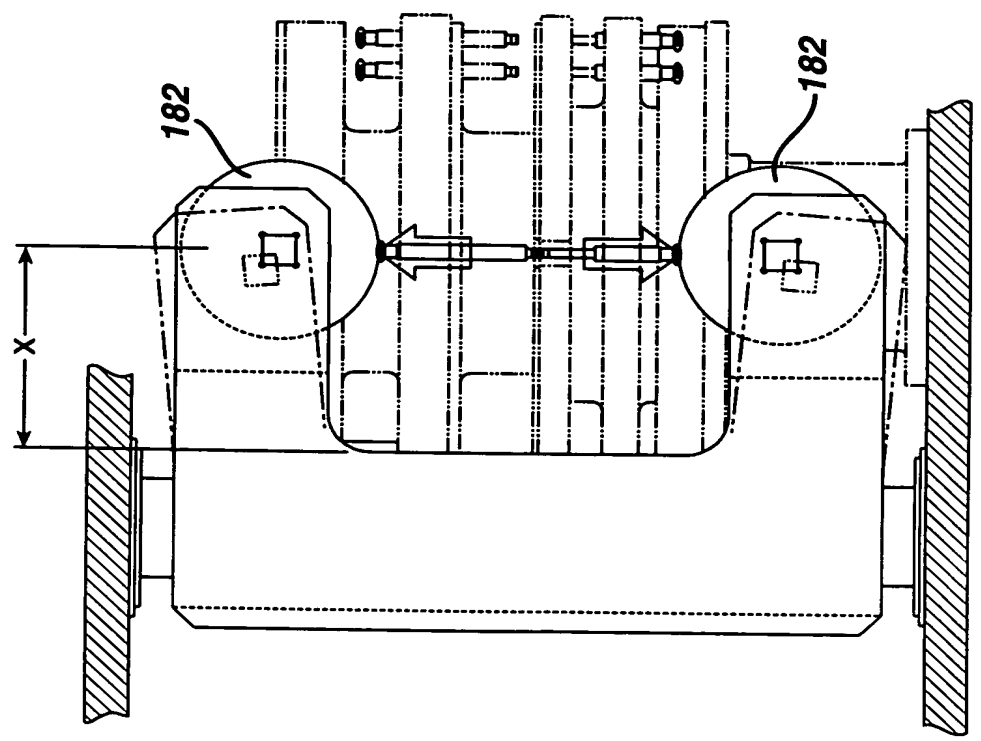


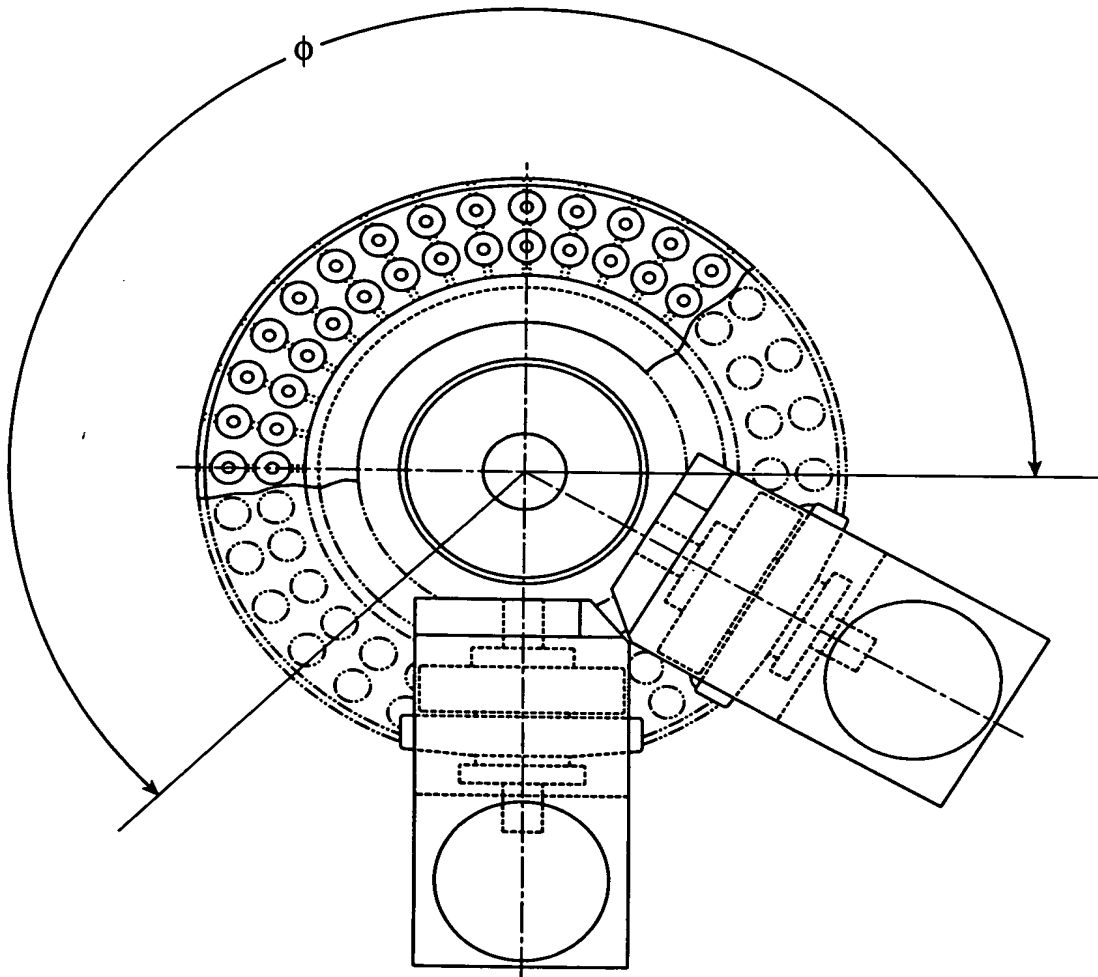
FIG. 17B





TITLE: THERMAL CYCLE MOLDING  
INVENTOR(S): Sowden, et al.  
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**FIG. 18A**



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FIG. 18C

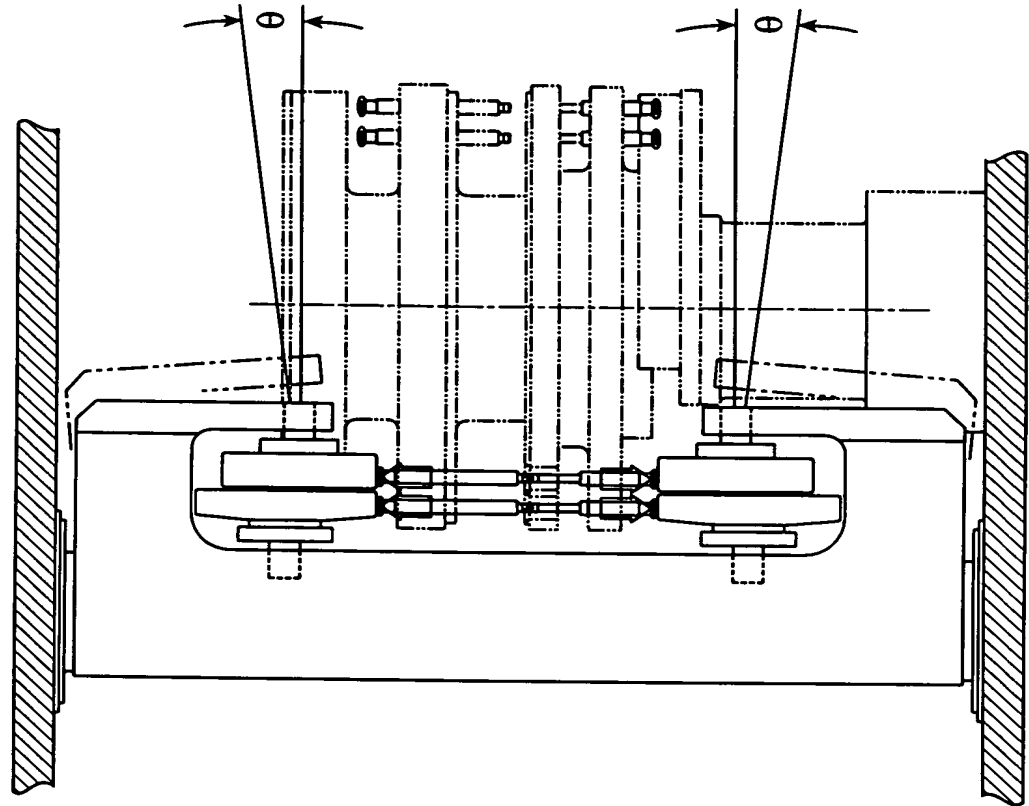
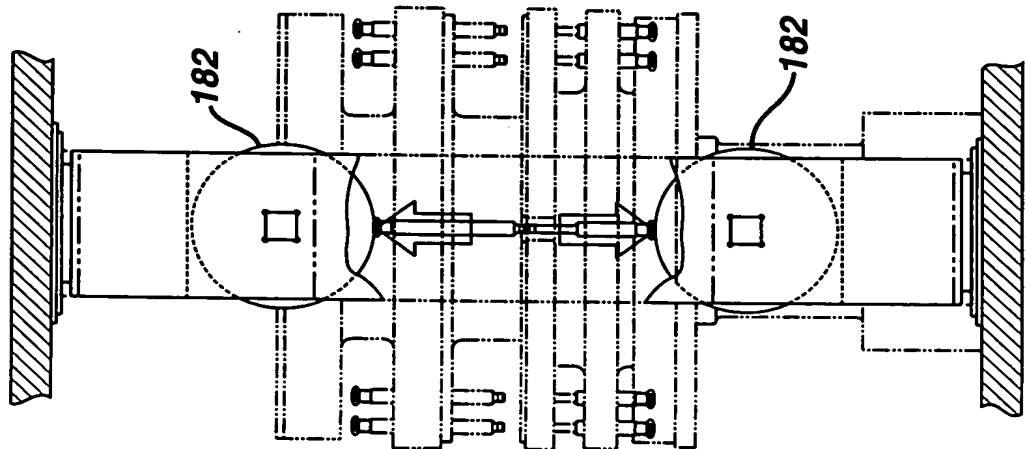


FIG. 18B



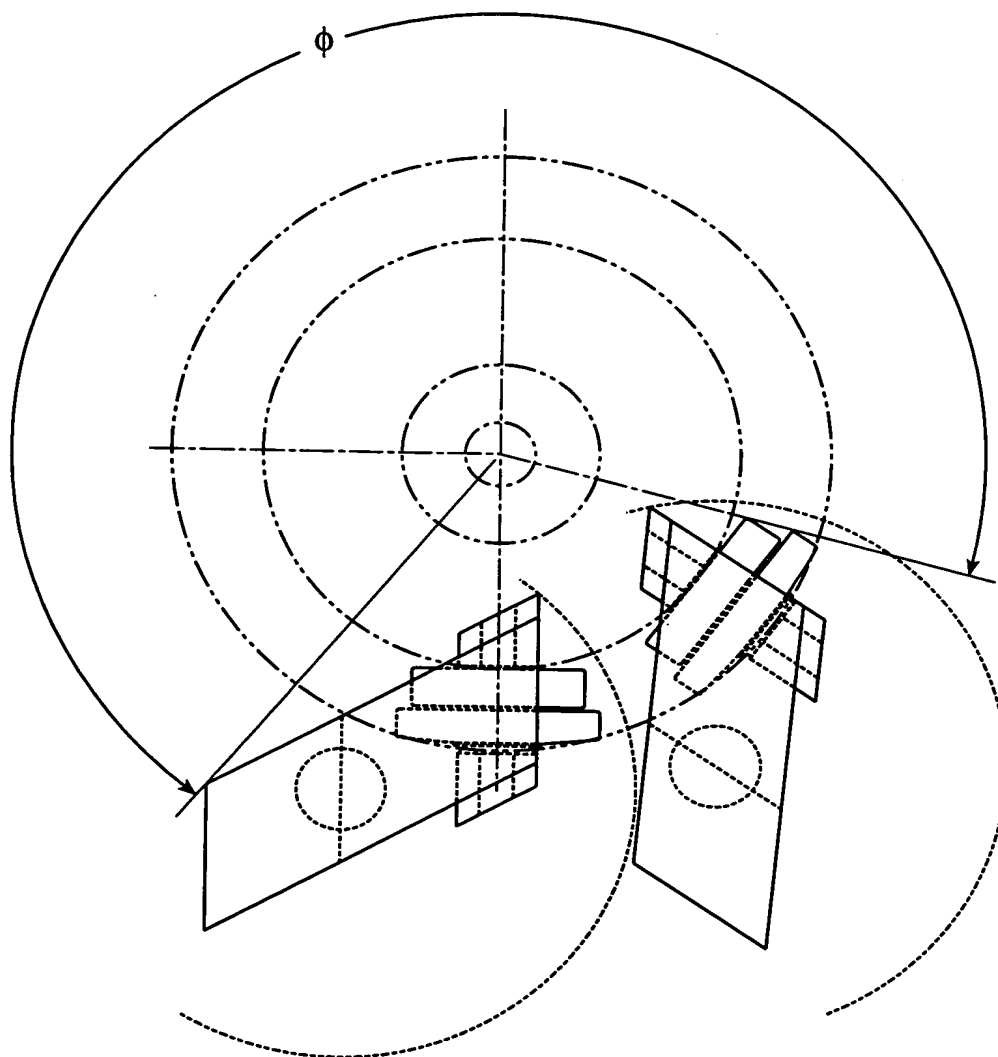


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**FIG. 19A**





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FIG. 19C

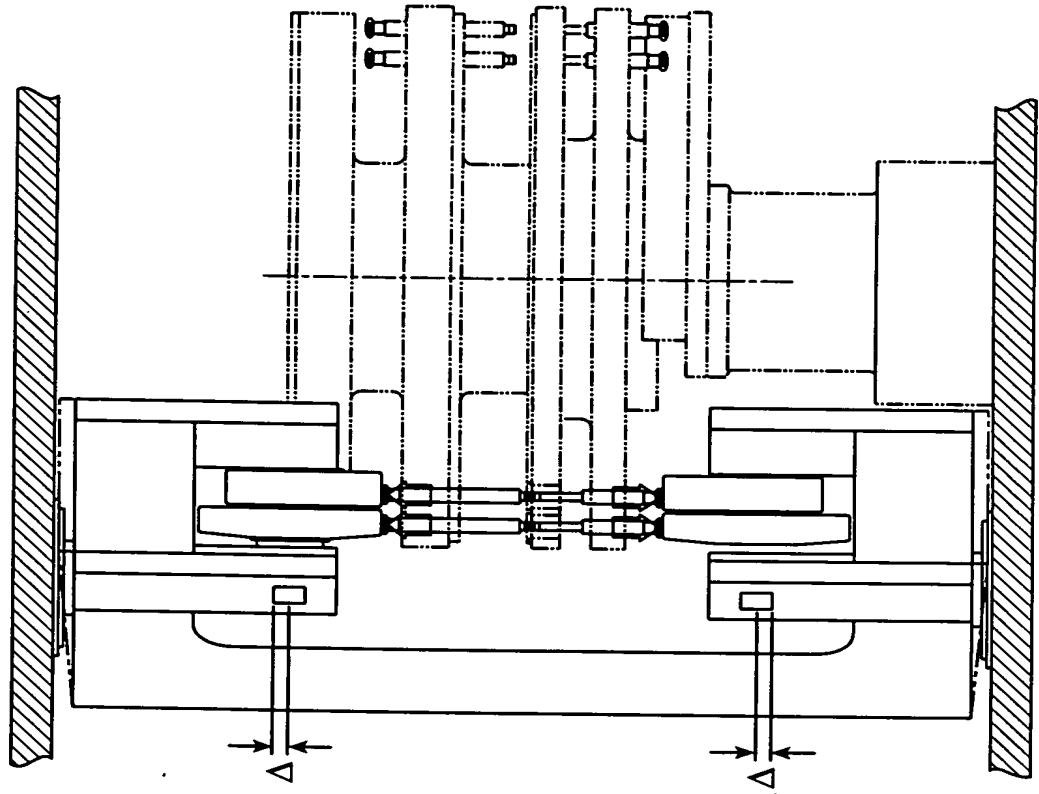
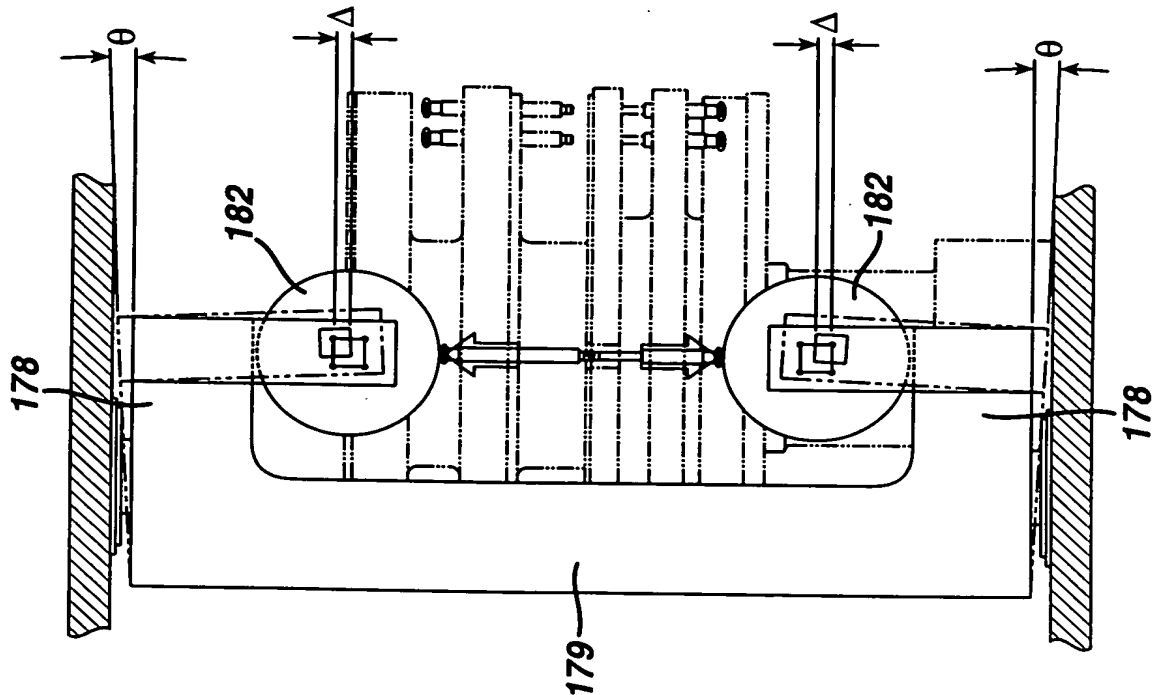


FIG. 19B



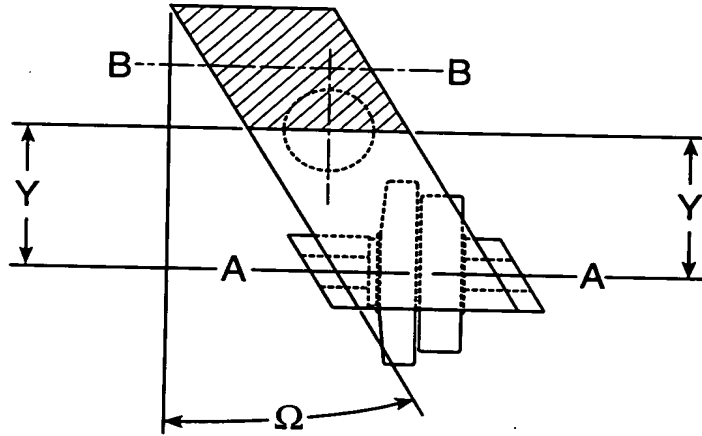


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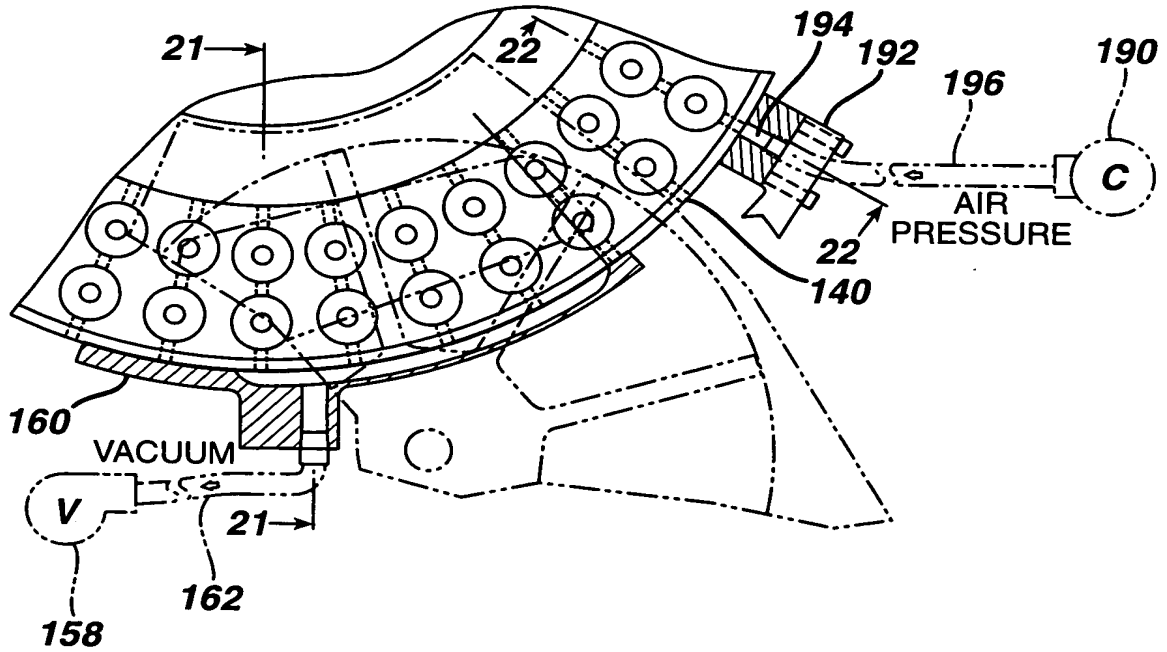
TITLE: THERMAL CYCLE MOLDING  
INVENTOR(S): Sowden, et al.  
APP#: 09/966,497  
ATTY: S. E. Hayner TEL. #: 732-524-2242  
DOCKET #: MCP-0294 CUST. #: 000027777

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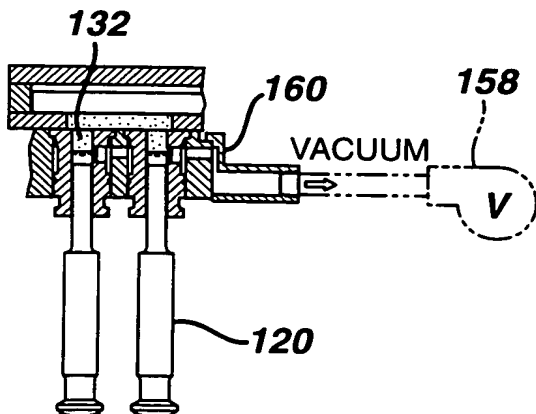
**FIG. 19D**



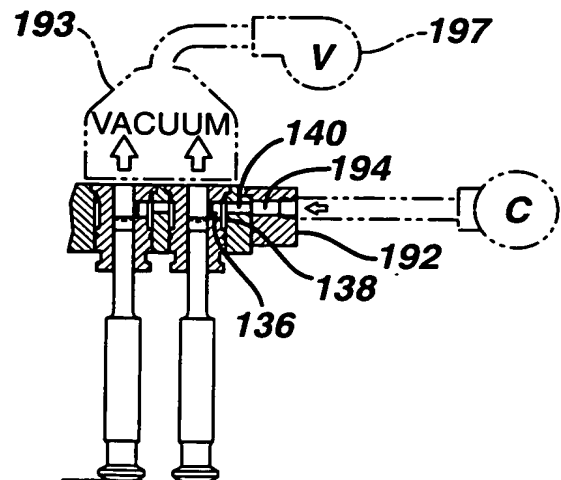
**FIG. 20**



**FIG. 21**



**FIG. 22**



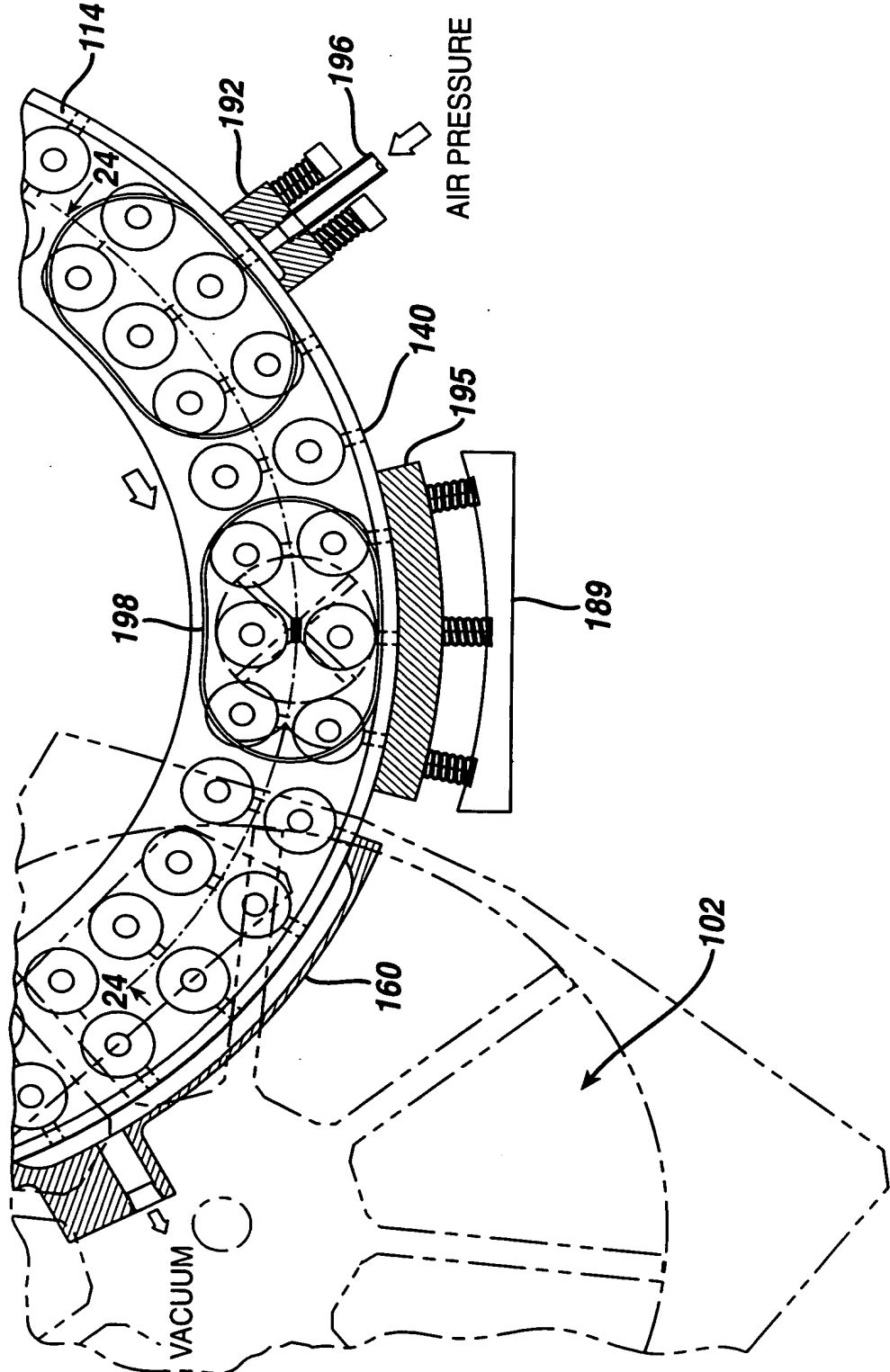


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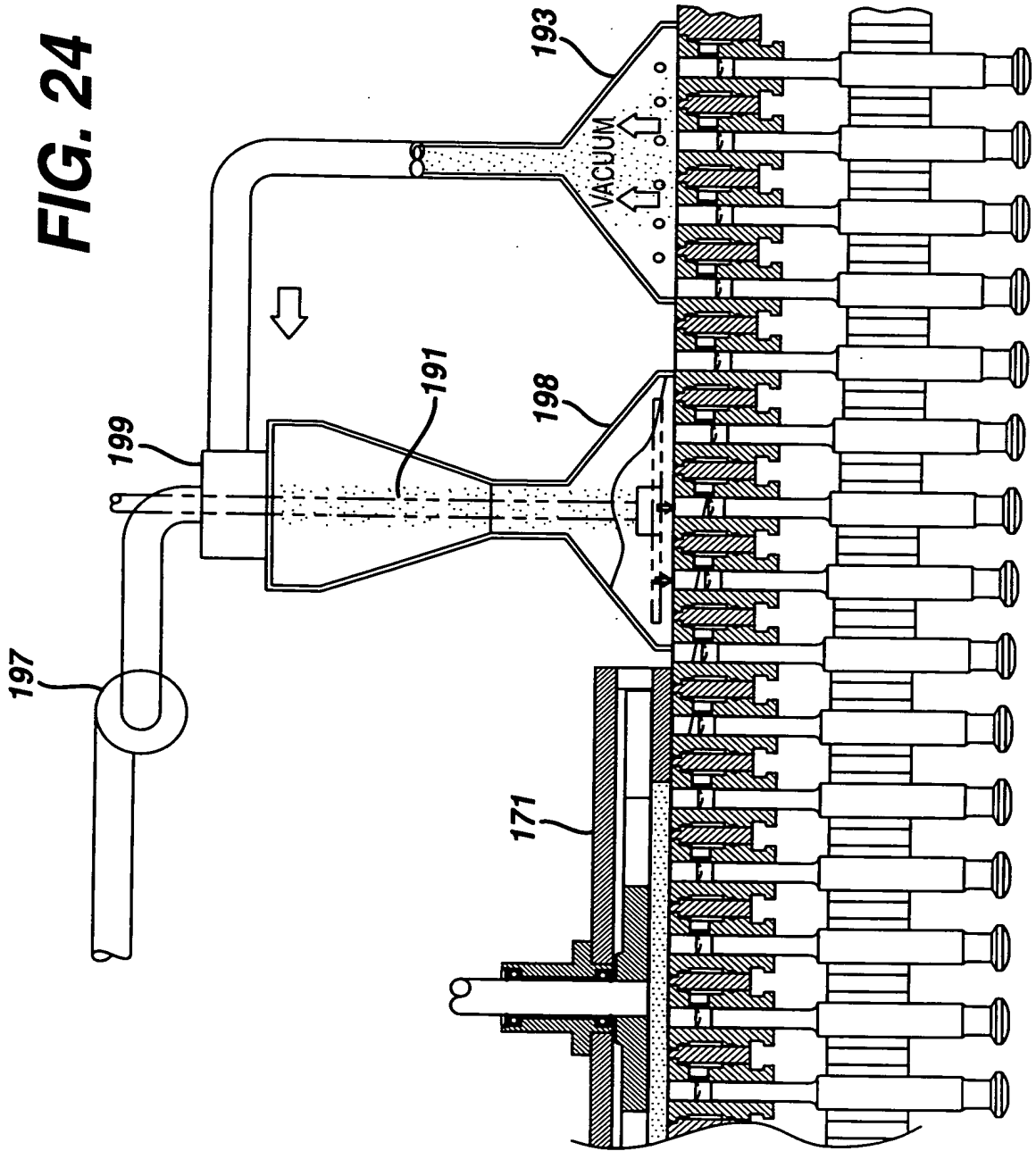
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FIG. 23



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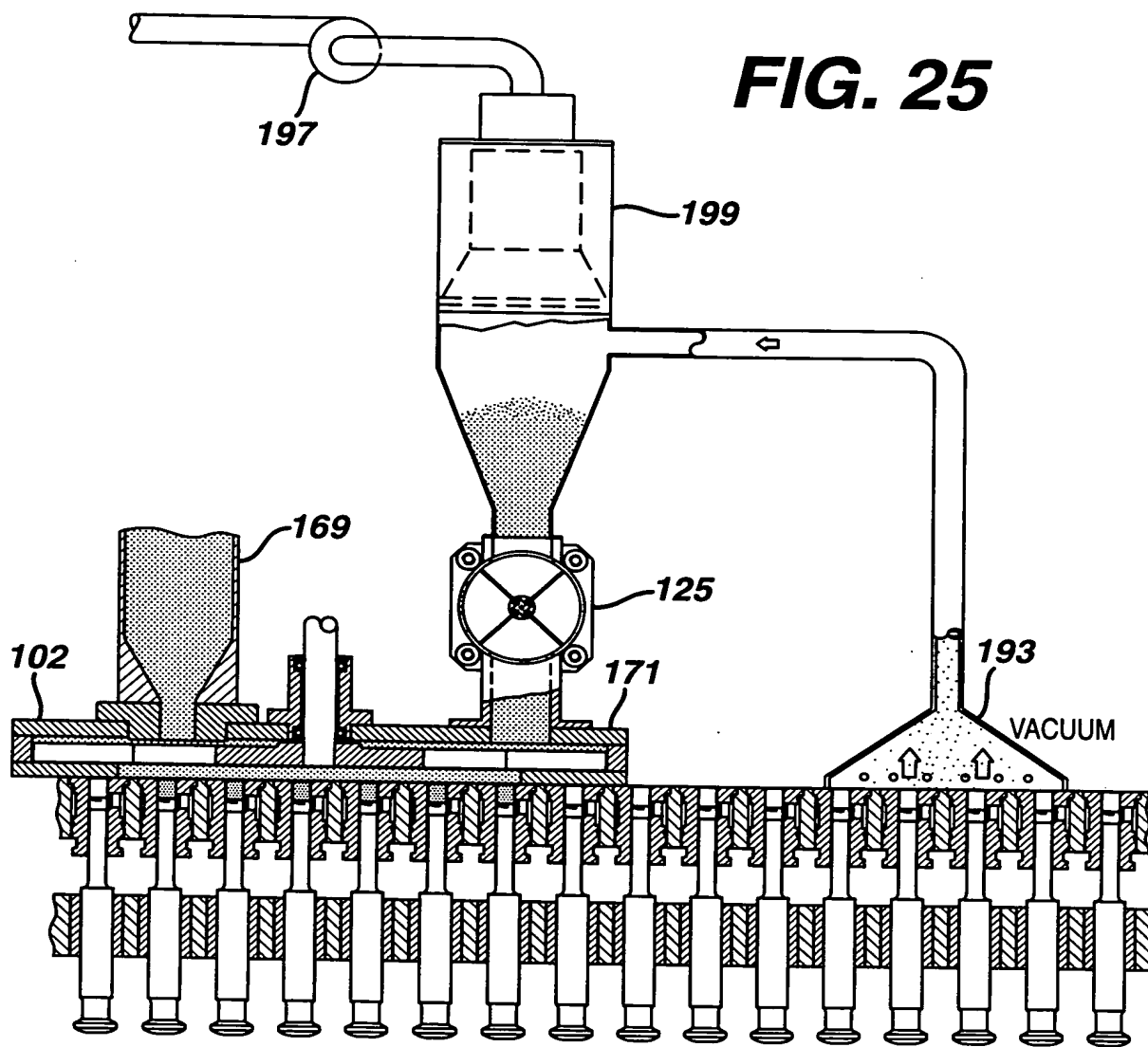




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TITLE: THERMAL CYCLE MOLDING  
INVENTOR(S): Sowden, et al.  
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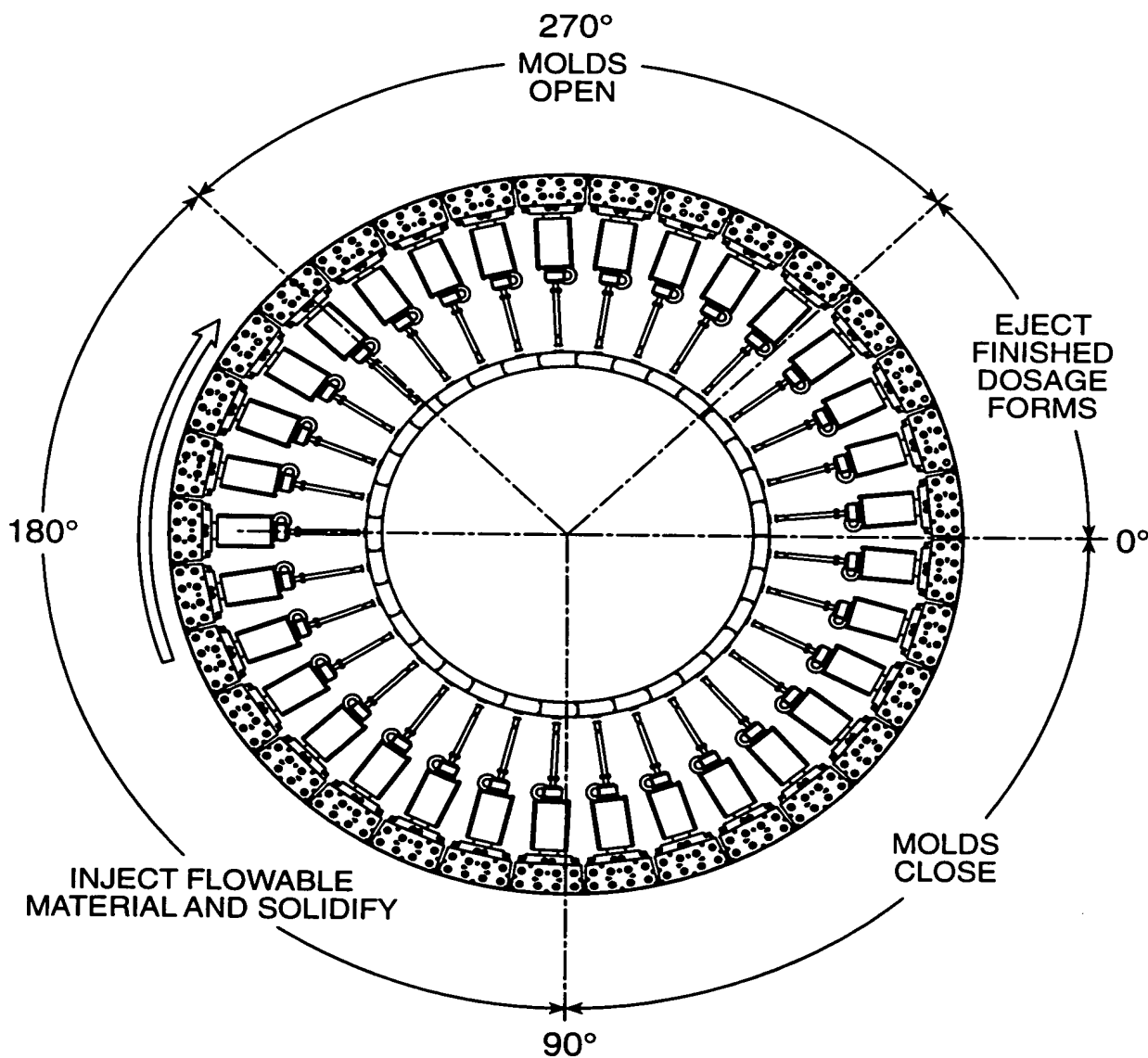




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INVENTOR(S): Sowden, et al.  
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**FIG. 26A**

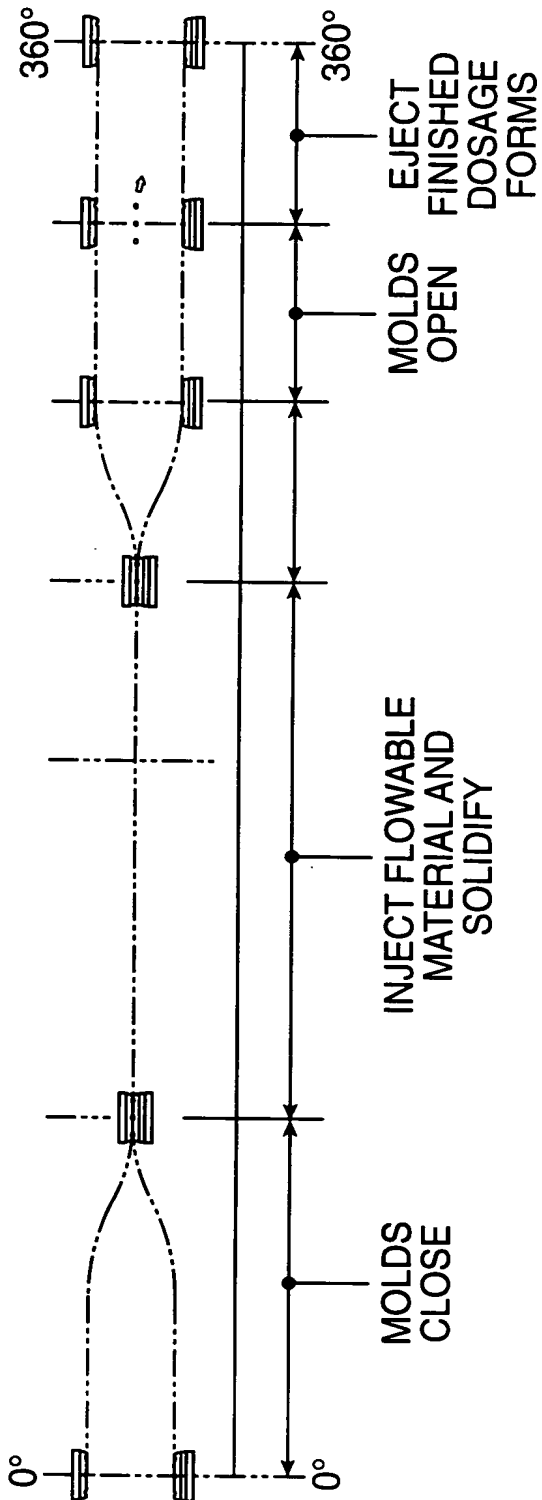


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TITLE: THERMAL CYCLE MOLDING  
INVENTOR(S): Sowden, et al.  
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FIG. 26B



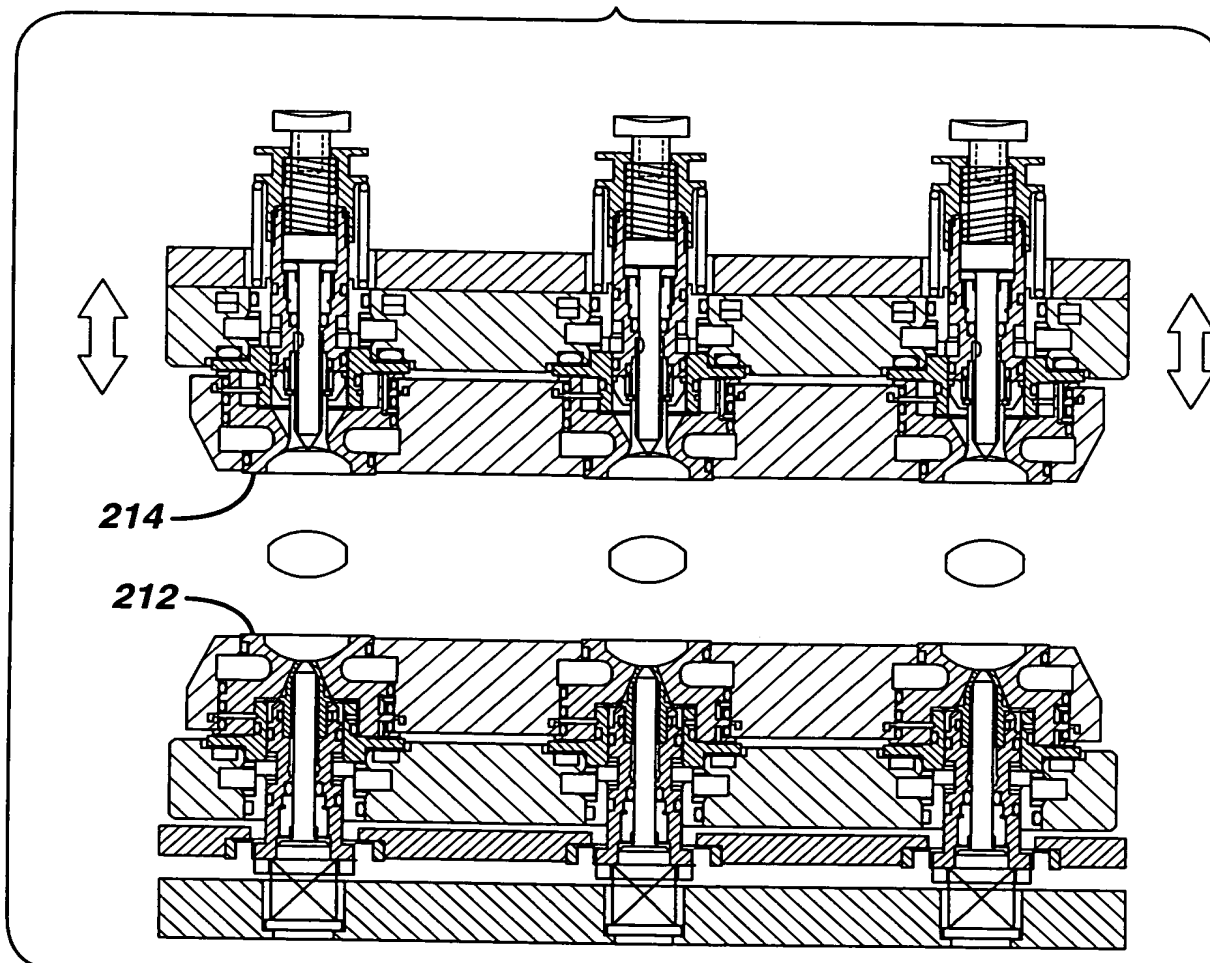


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TITLE: THERMAL CYCLE MOLDING  
INVENTOR(S): Sowden, et al.  
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**FIG. 26C**



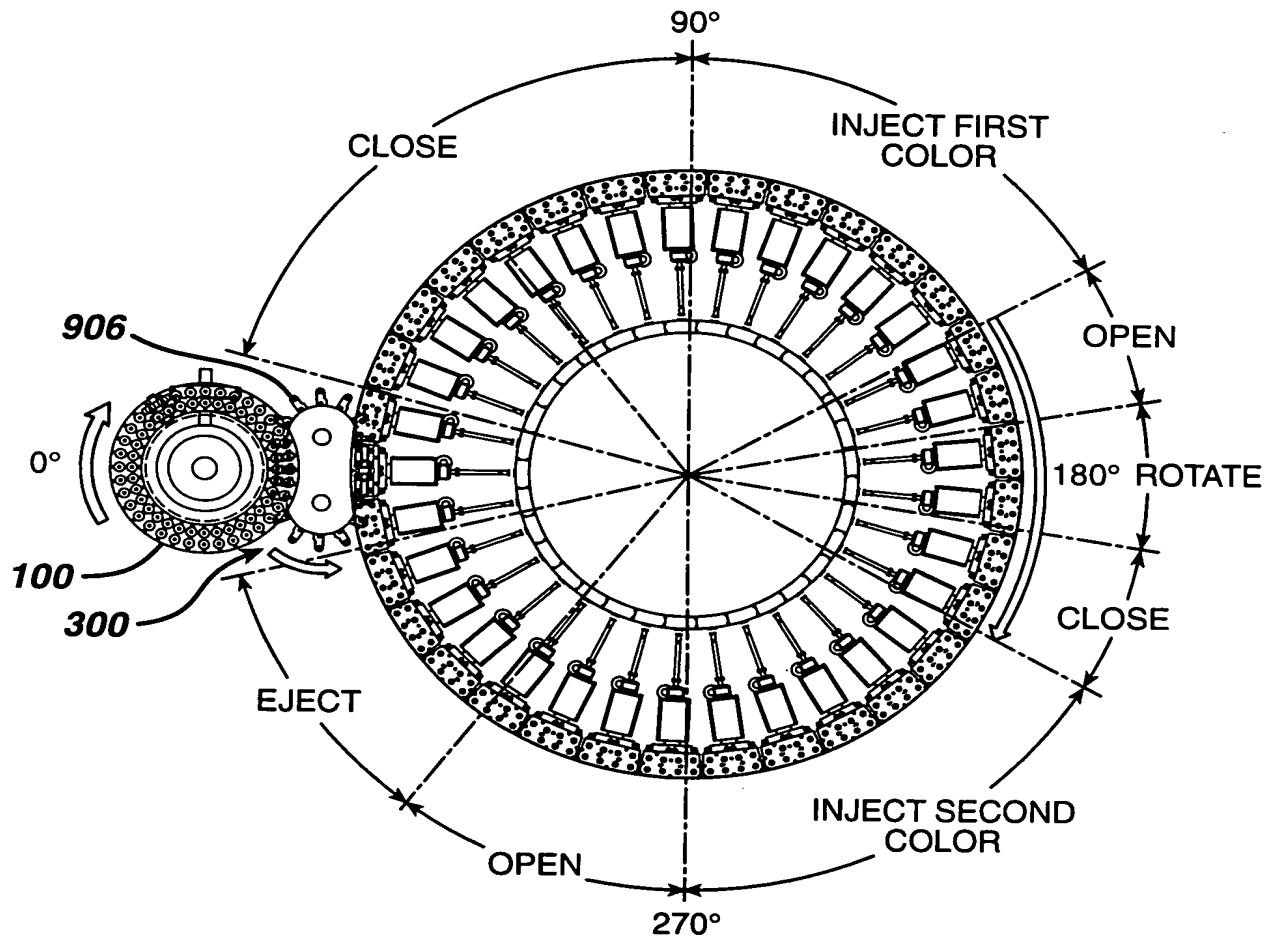


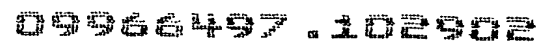
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TITLE: THERMAL CYCLE MOLDING  
INVENTOR(S): Sowden, et al.  
APP#: 09/966,497  
ATTY: S. E. Hayner TEL. #: 732-524-2242  
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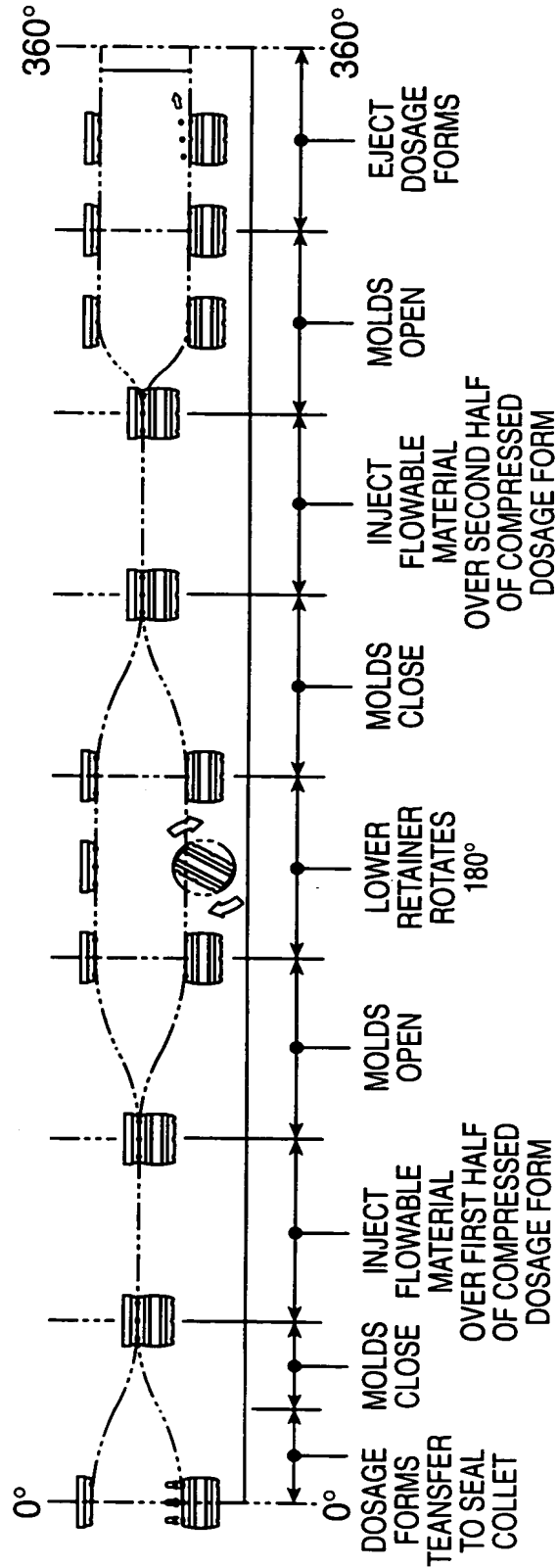
**FIG. 27A**





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**FIG. 27B**



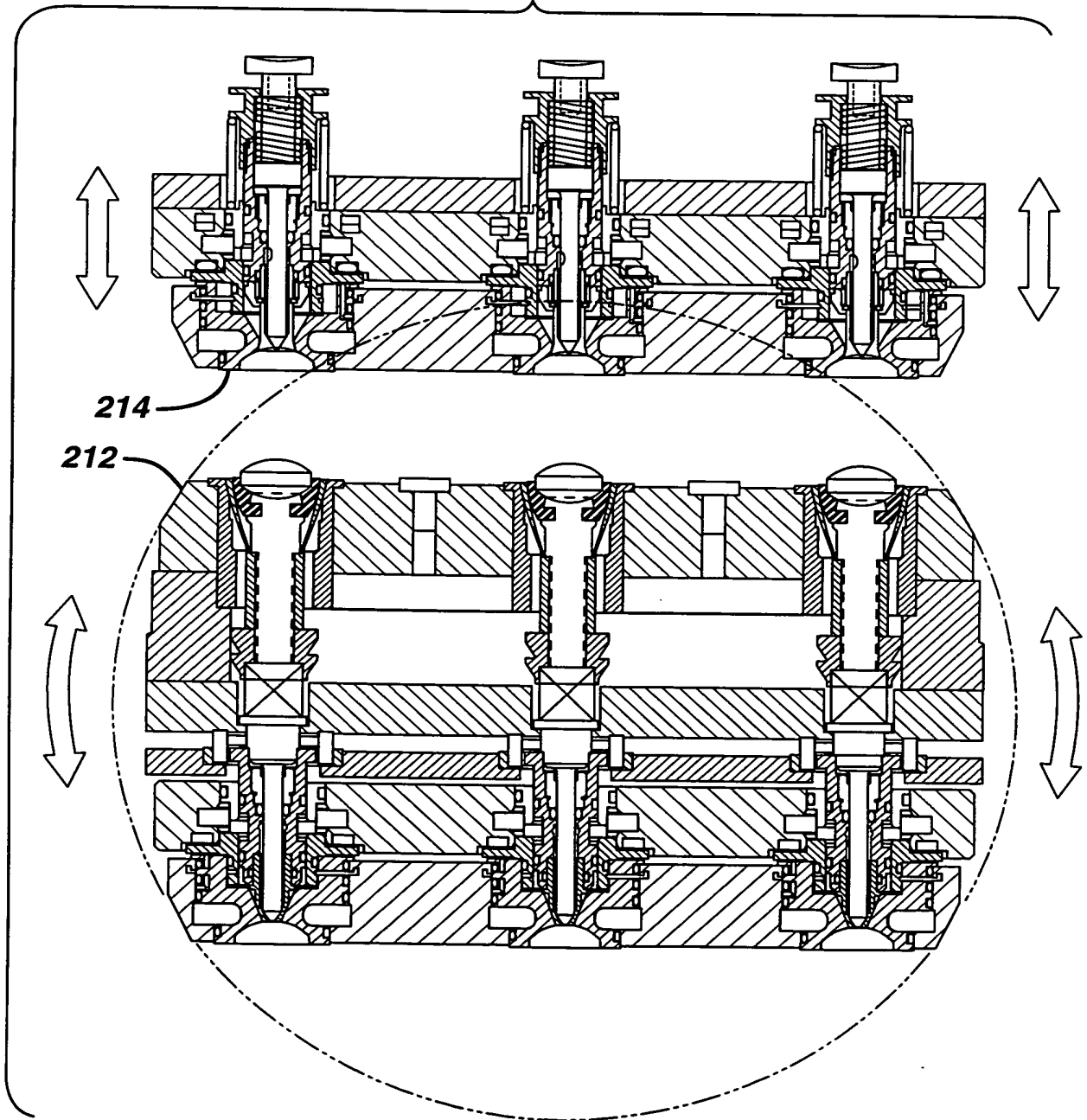


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TITLE: THERMAL CYCLE MOLDING  
INVENTOR(S): Sowden, et al.  
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ATTY: S. E. Hayner TEL. #: 732-524-2242  
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**FIG. 27C**



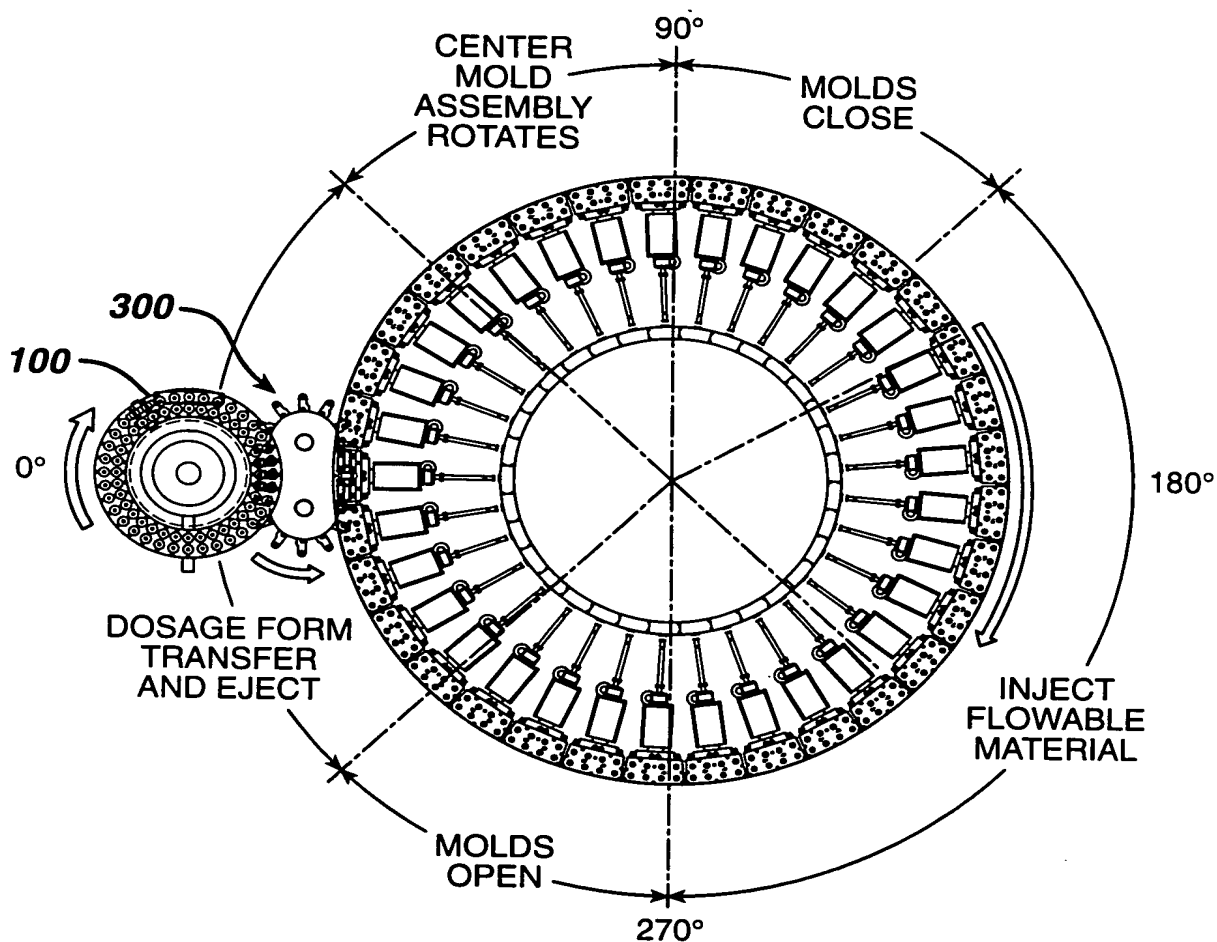


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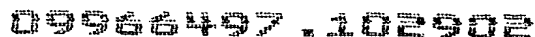
TITLE: THERMAL CYCLE MOLDING  
INVENTOR(S): Sowden, et al.  
APP#: 09/966,497  
ATTY: S. E. Hayner TEL. #: 732-524-2242  
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**FIG. 28A**

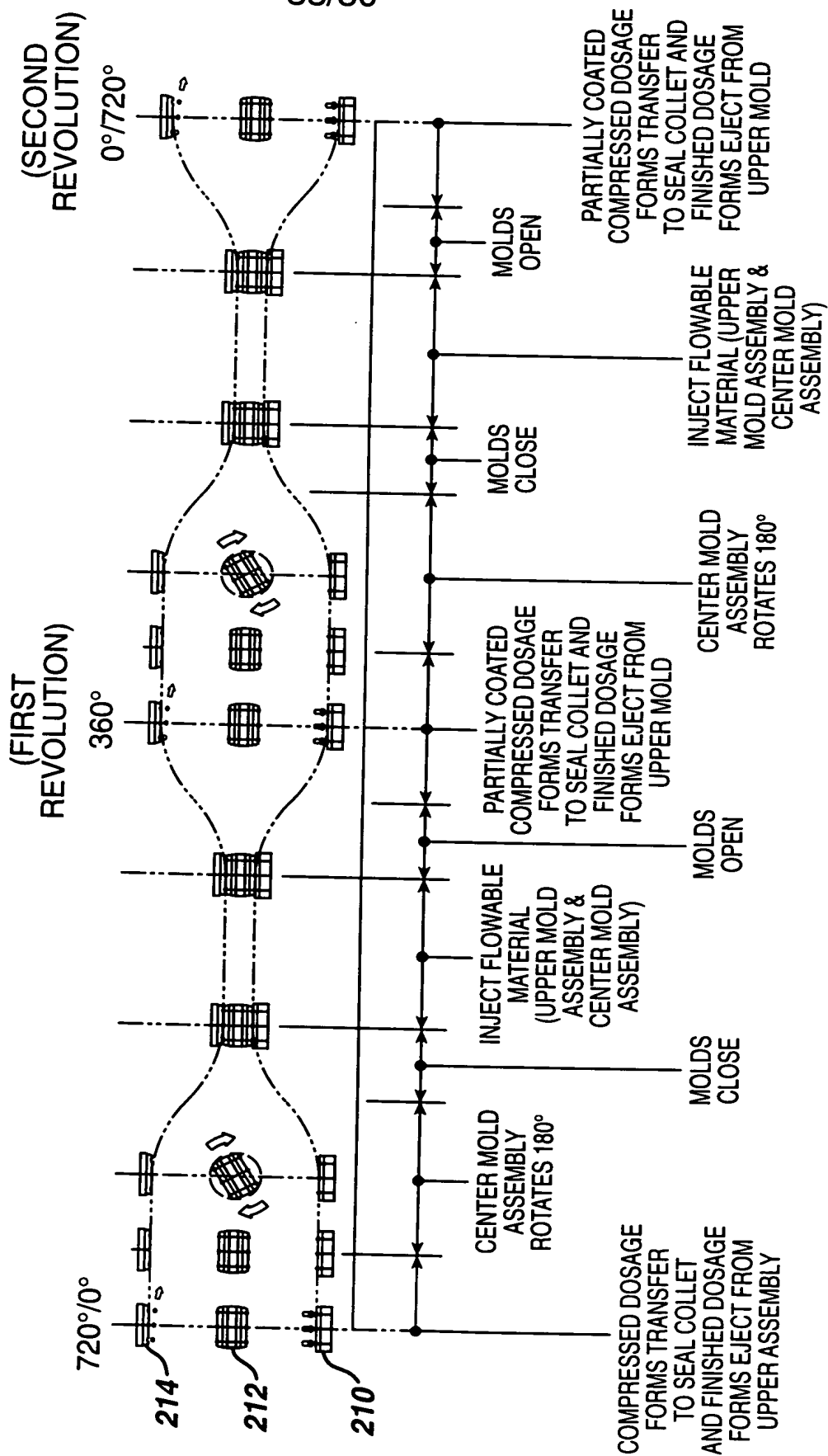






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**FIG. 28B**



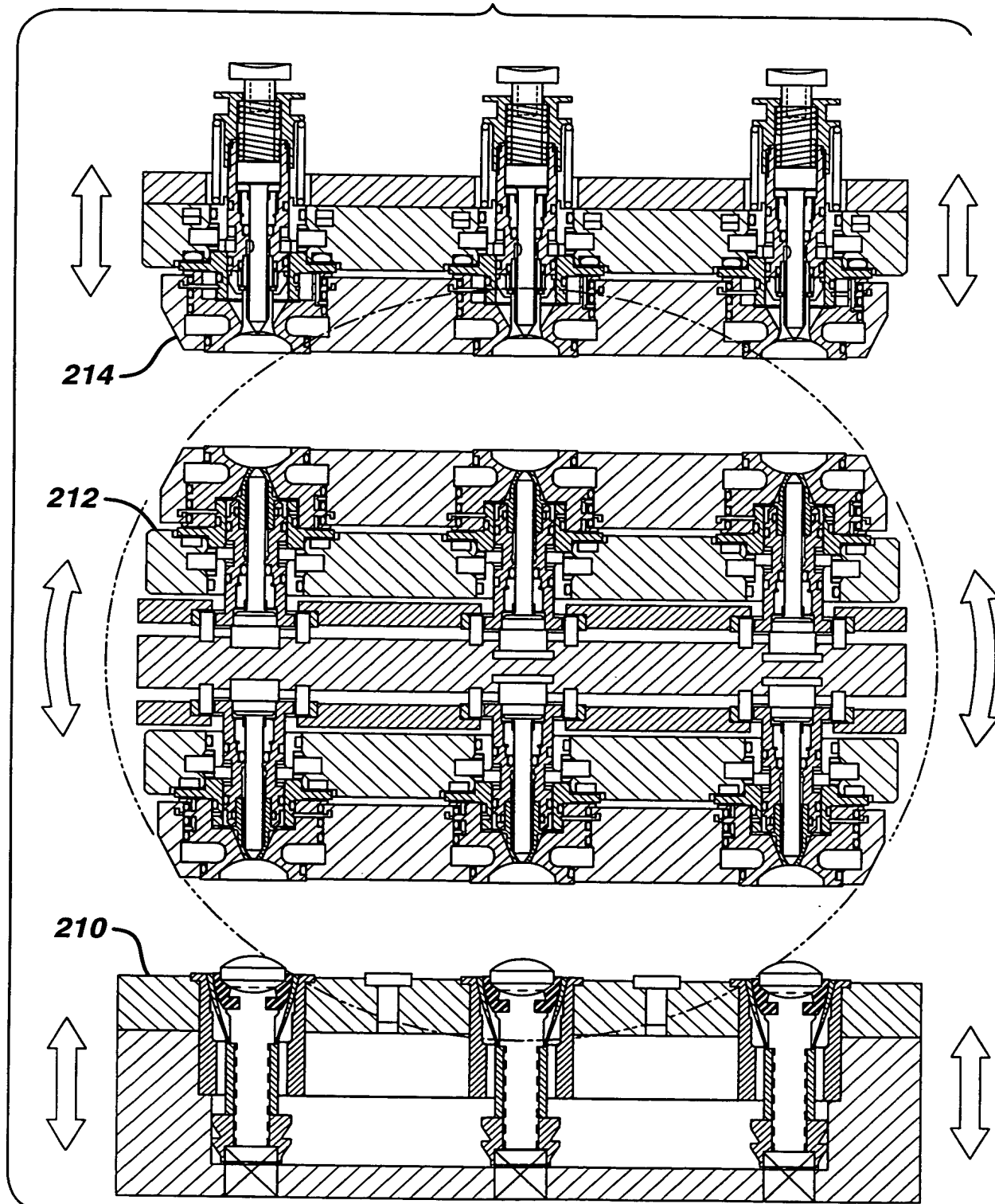


09966497.102902

TITLE: THERMAL CYCLE MOLDING  
INVENTOR(S): Sowden, et al.  
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**FIG. 28C**





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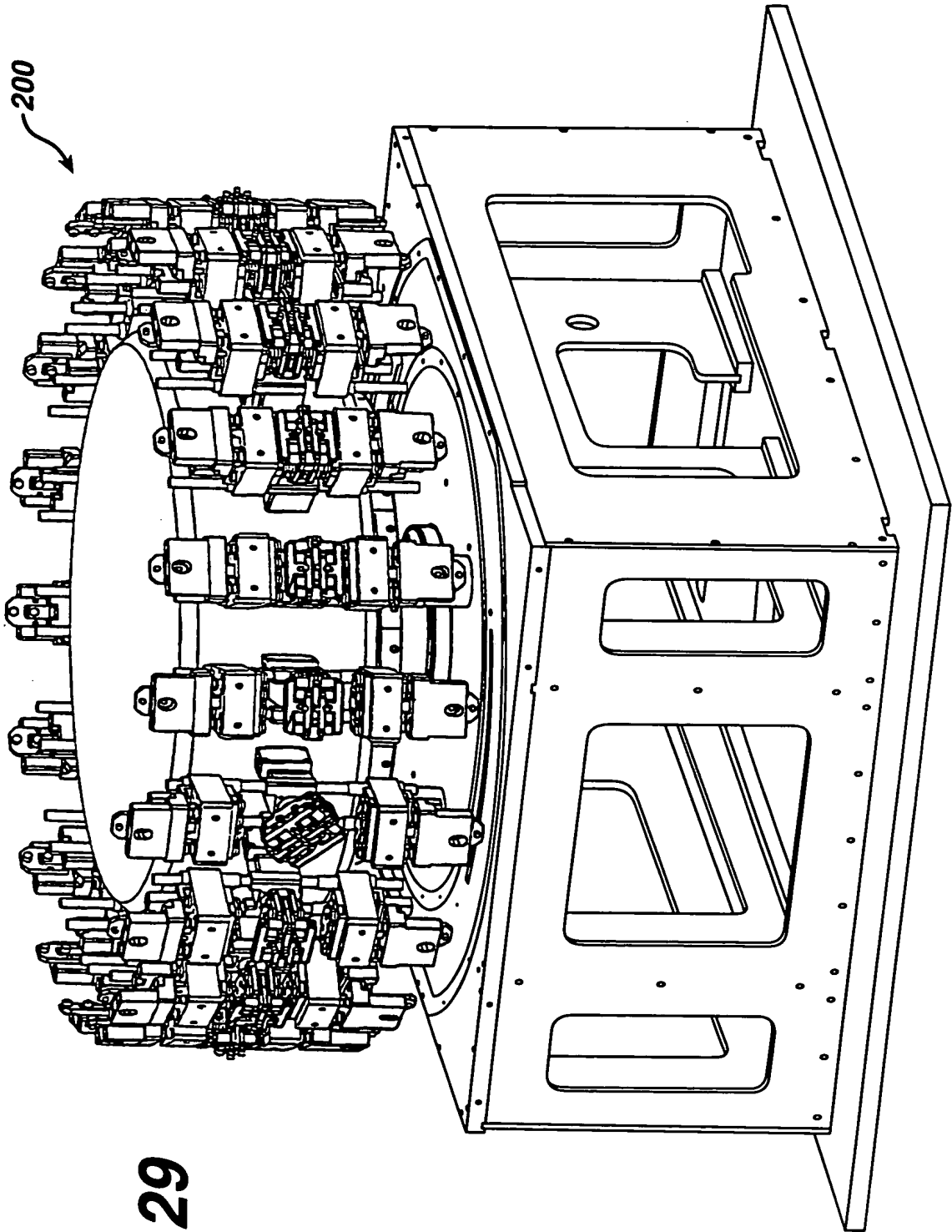


FIG. 29

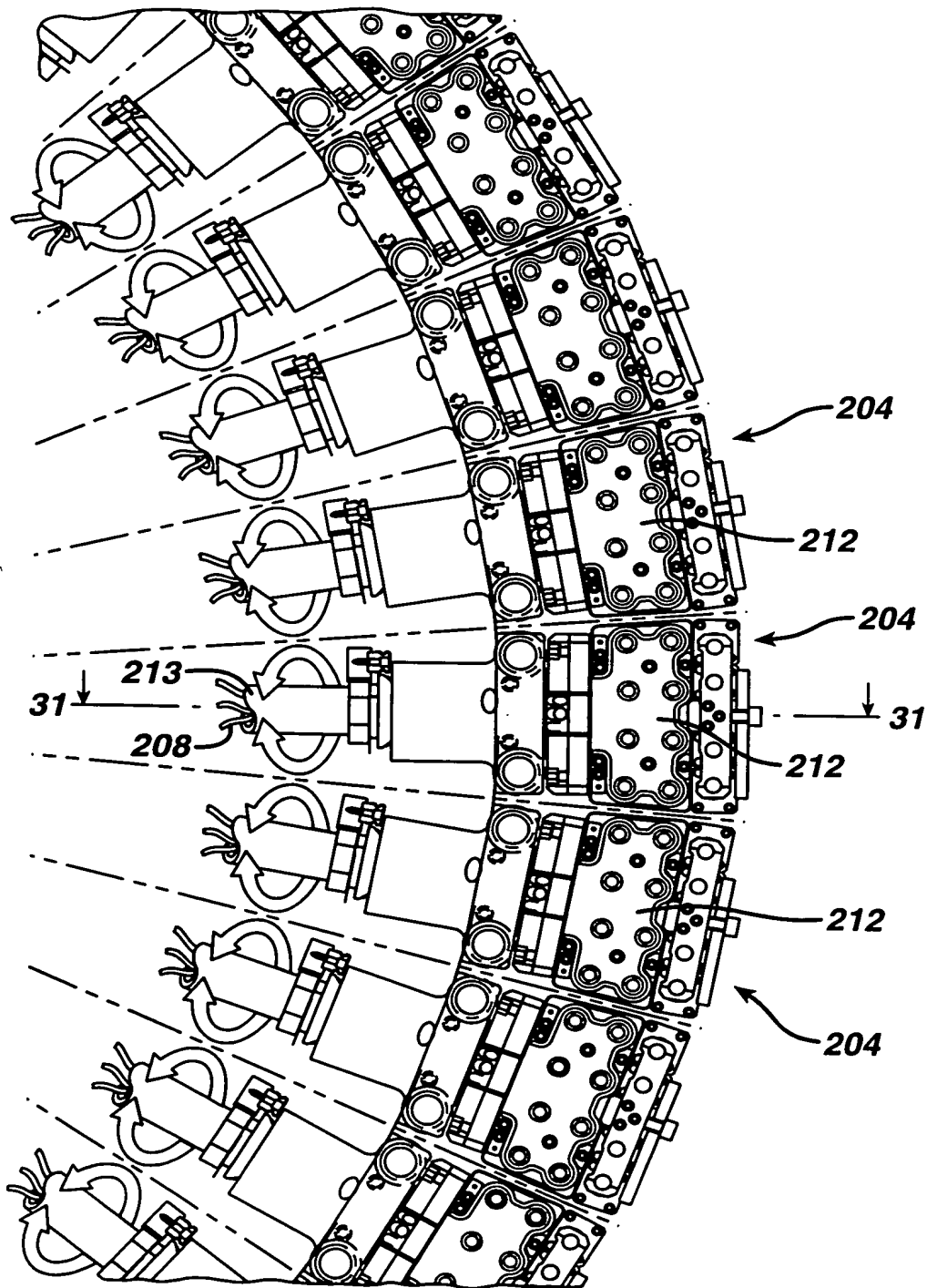


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TITLE: THERMAL CYCLE MOLDING  
INVENTOR(S): Sowden, et al.  
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ATTY: S. E. Hayner TEL. #: 732-524-2242  
DOCKET #: MCP-0294 CUST. #: 000027777

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**FIG. 30**

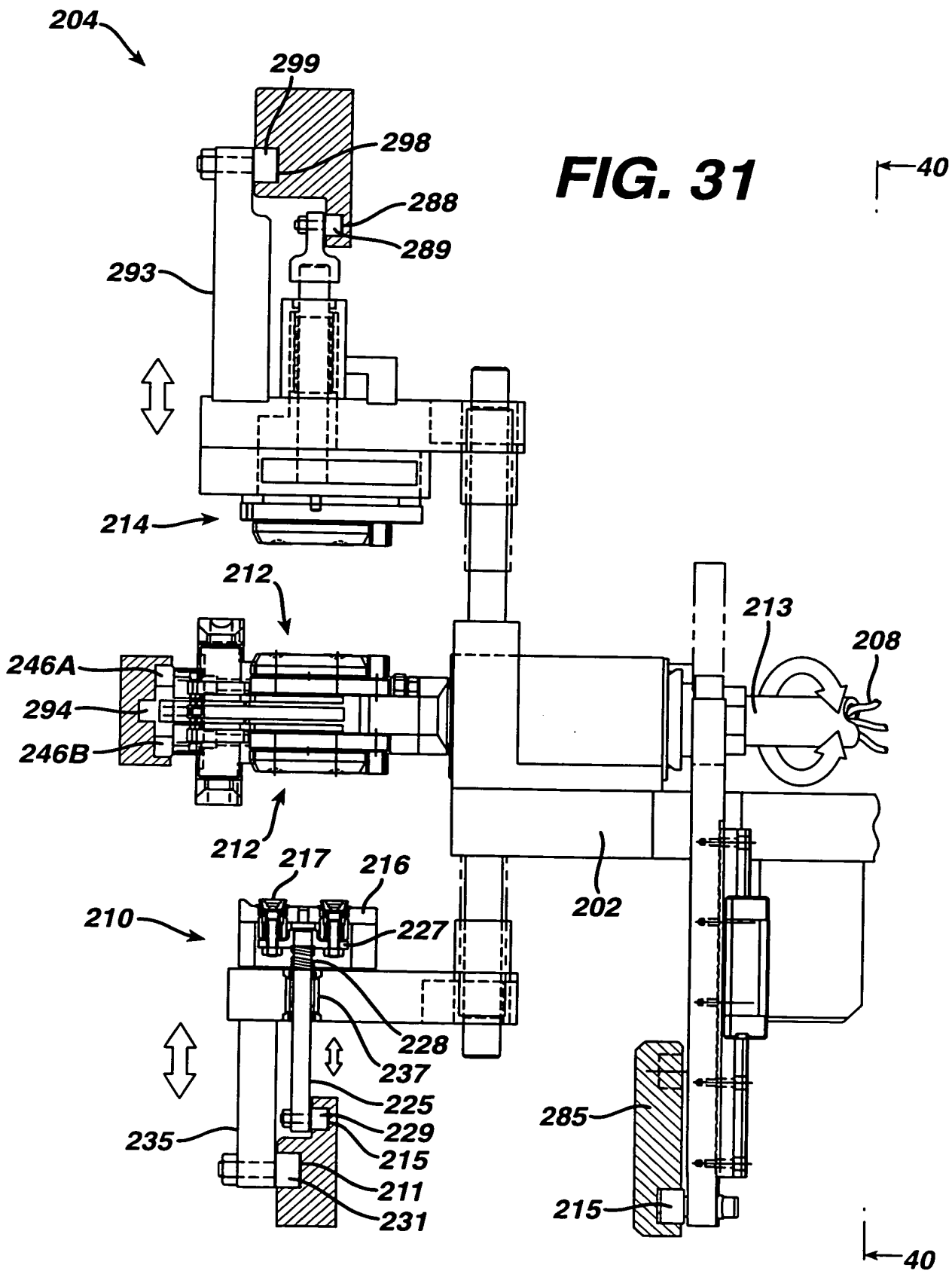




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INVENTOR(S): Sowden, et al.  
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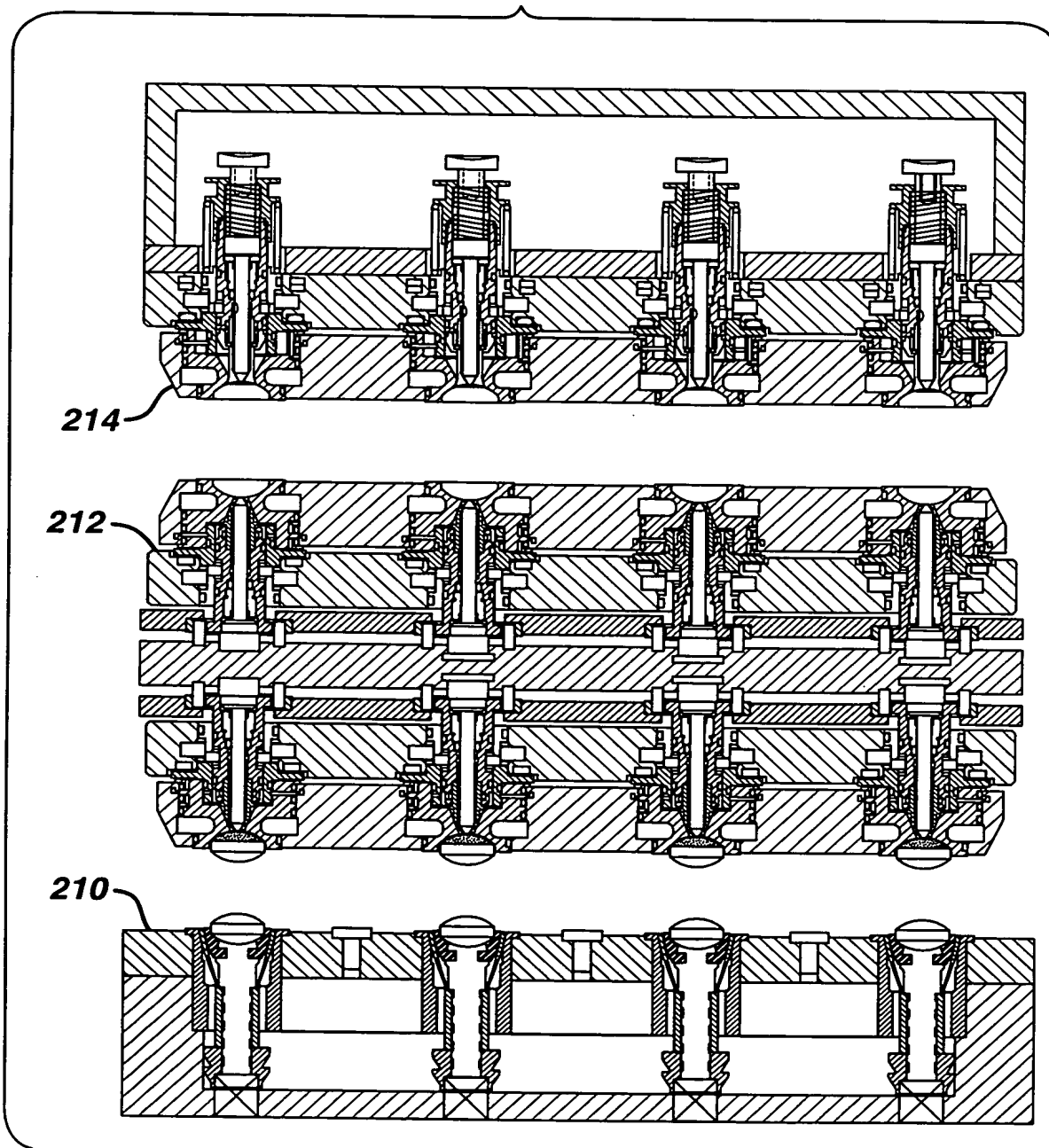




09966497 .102902

TITLE: THERMAL CYCLE MOLDING  
INVENTOR(S): Sowden, et al.  
APP#: 09/966,497  
ATTY: S. E. Hayner TEL. #: 732-524-2242  
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**FIG. 32**

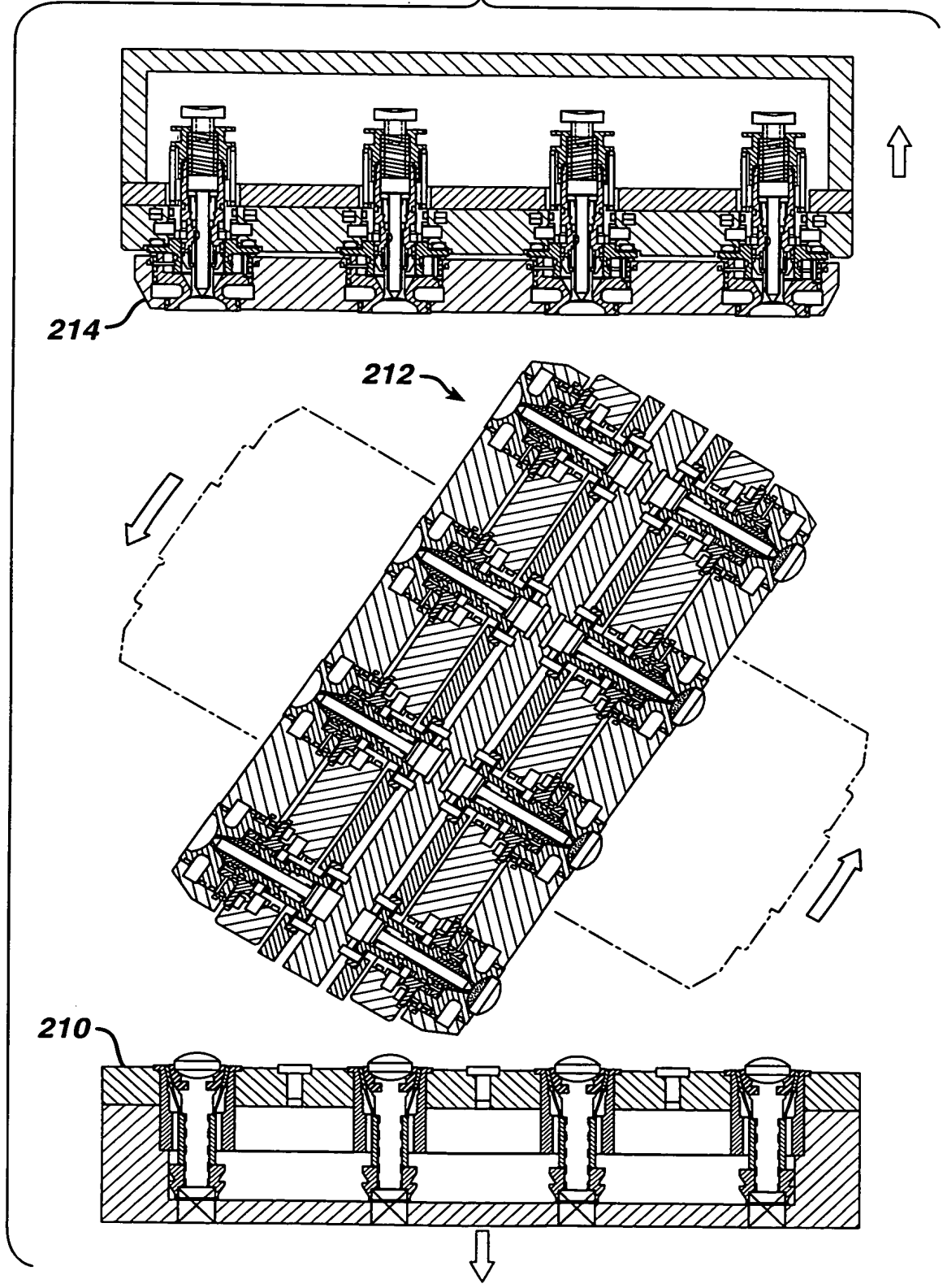


09966497.102902

TITLE: THERMAL CYCLE MOLDING  
INVENTOR(S): Sowden, et al.  
APP#: 09/966,497  
ATTY: S. E. Hayner TEL. #: 732-524-2242  
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**FIG. 33**



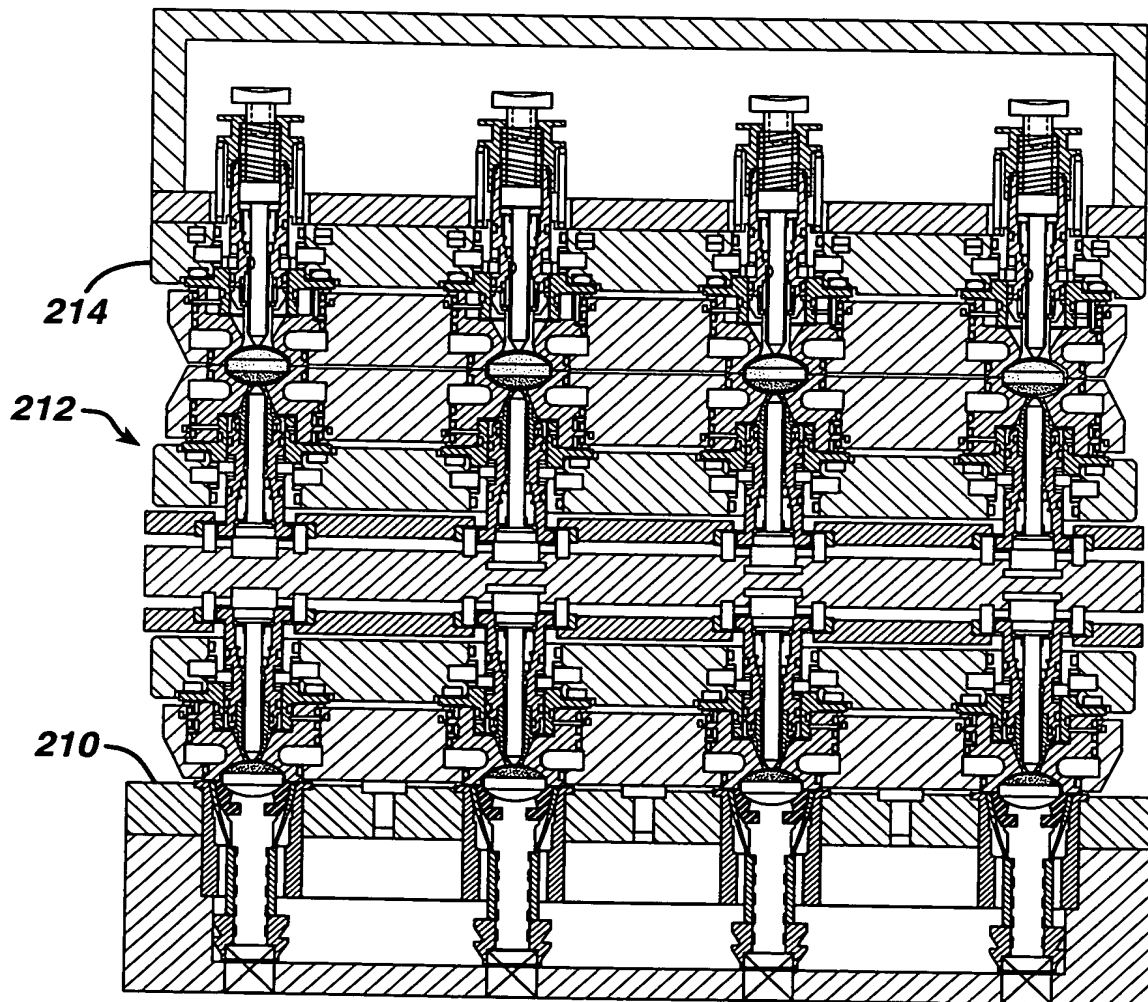


09966497 . 102902

TITLE: THERMAL CYCLE MOLDING  
INVENTOR(S): Sowden, et al.  
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**FIG. 34**





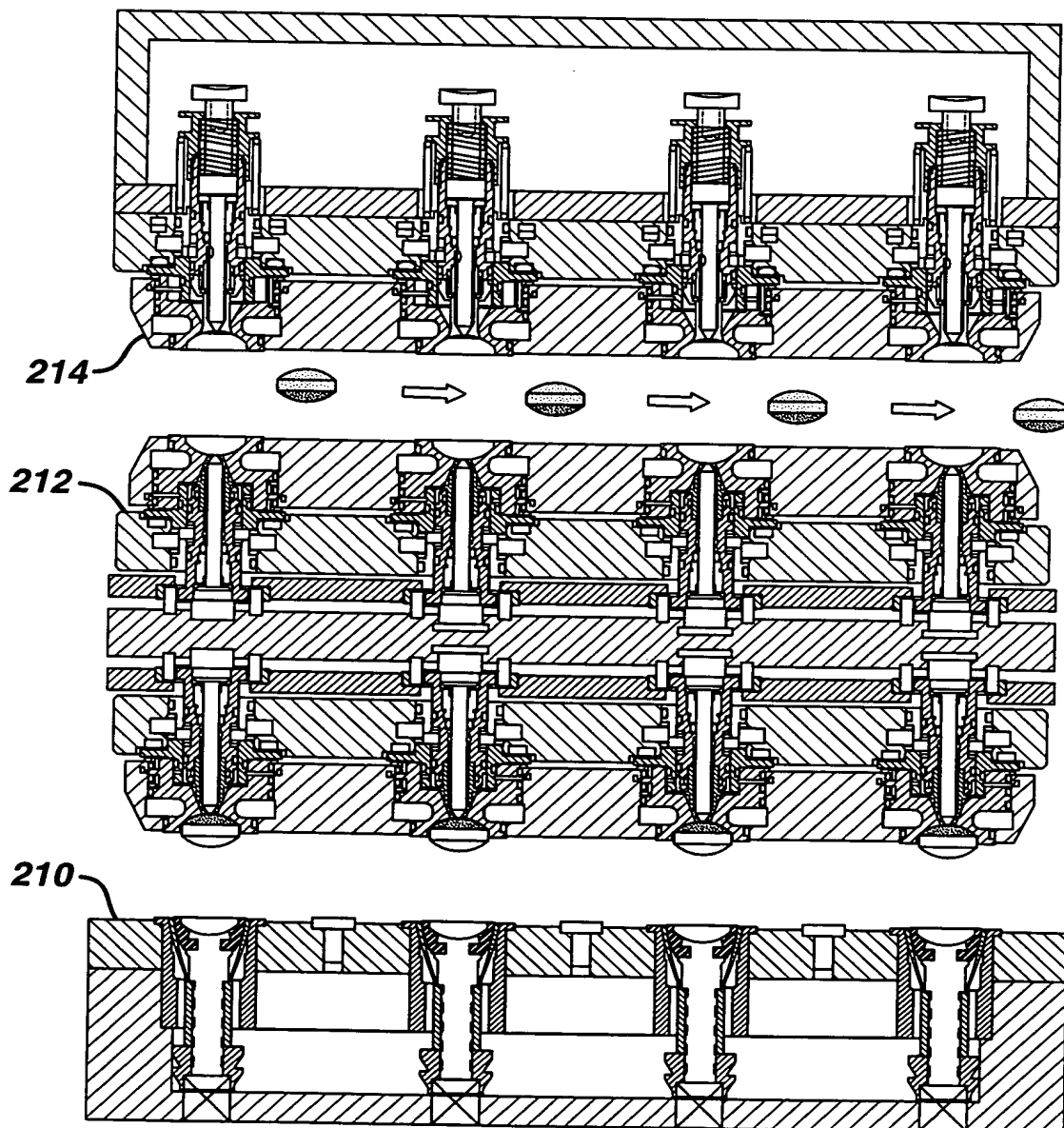


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**FIG. 35**





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FIG. 38

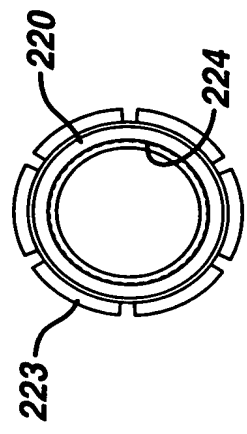


FIG. 39

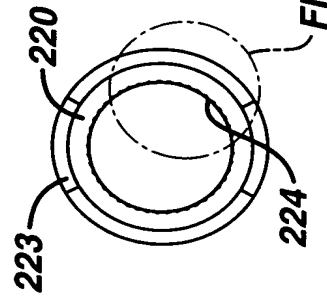


FIG. 39A

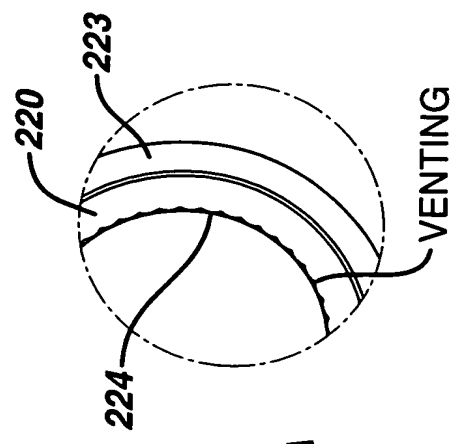


FIG. 36

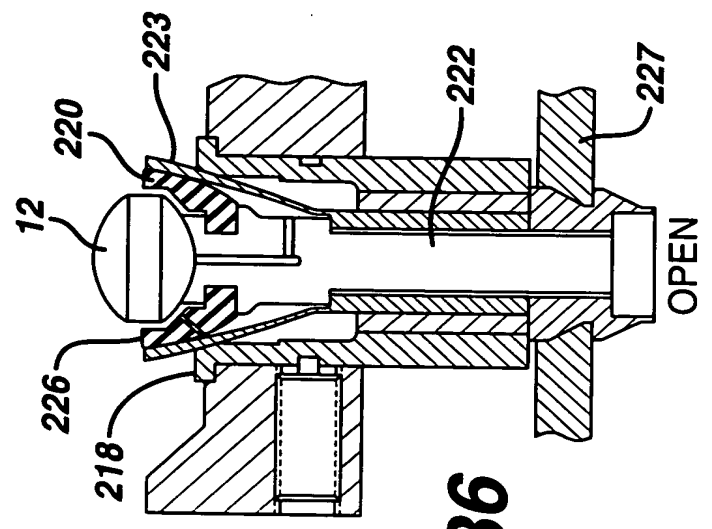
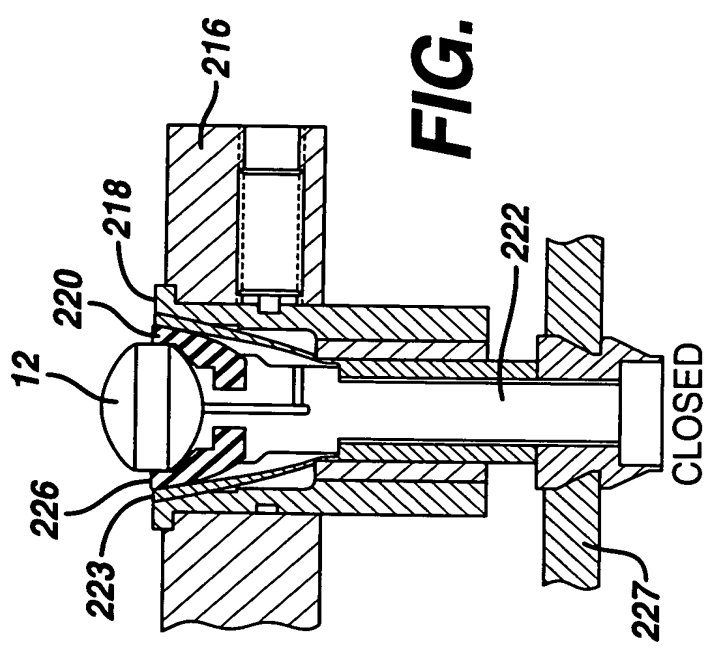


FIG. 37

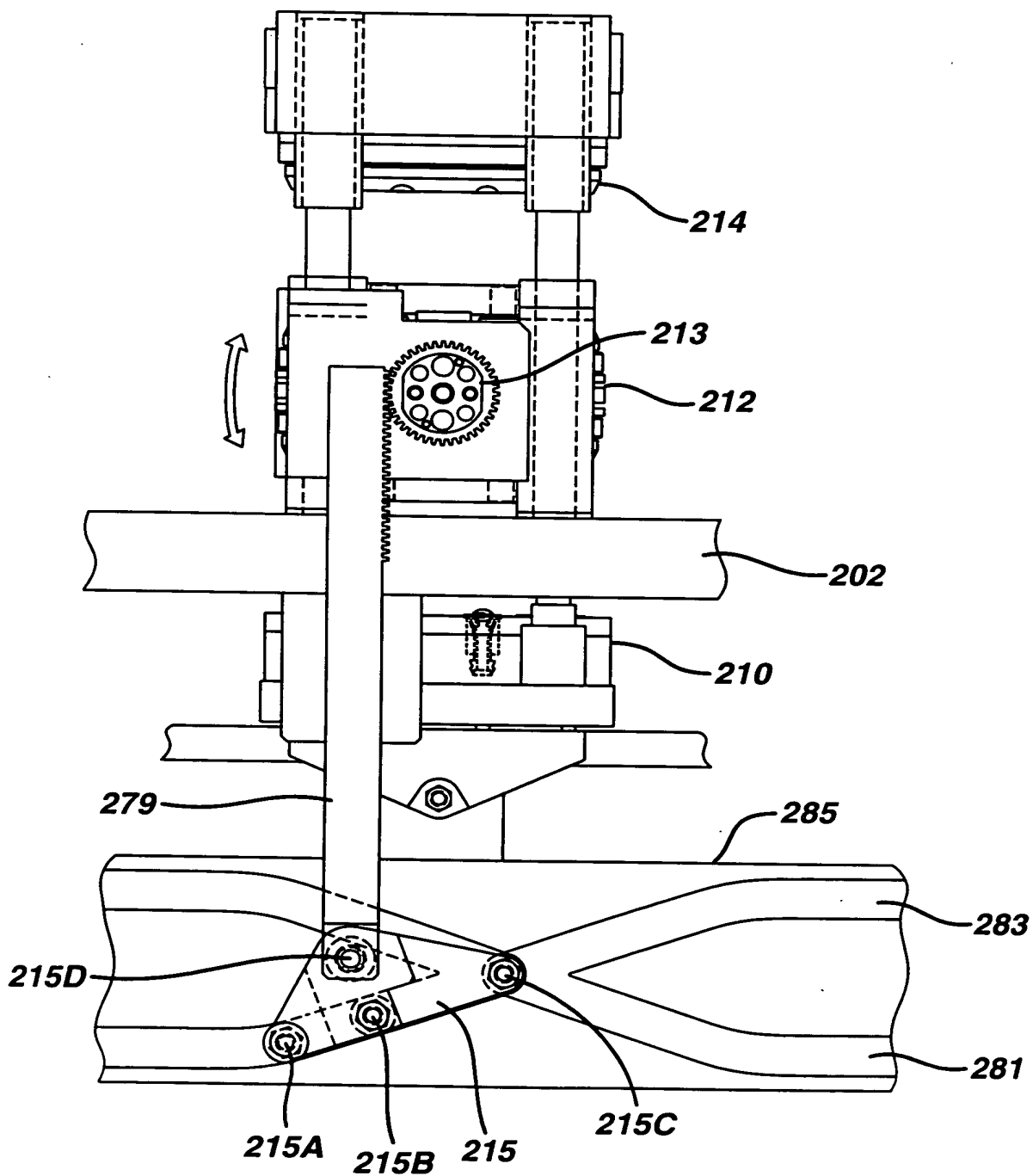


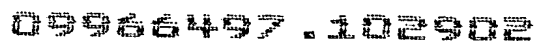


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TITLE: THERMAL CYCLE MOLDING  
INVENTOR(S): Sowden, et al.  
APP#: 09/966,497  
ATTY: S. E. Hayner TEL. #: 732-524-2242  
DOCKET #: MCP-0294 CUST. #: 000027777

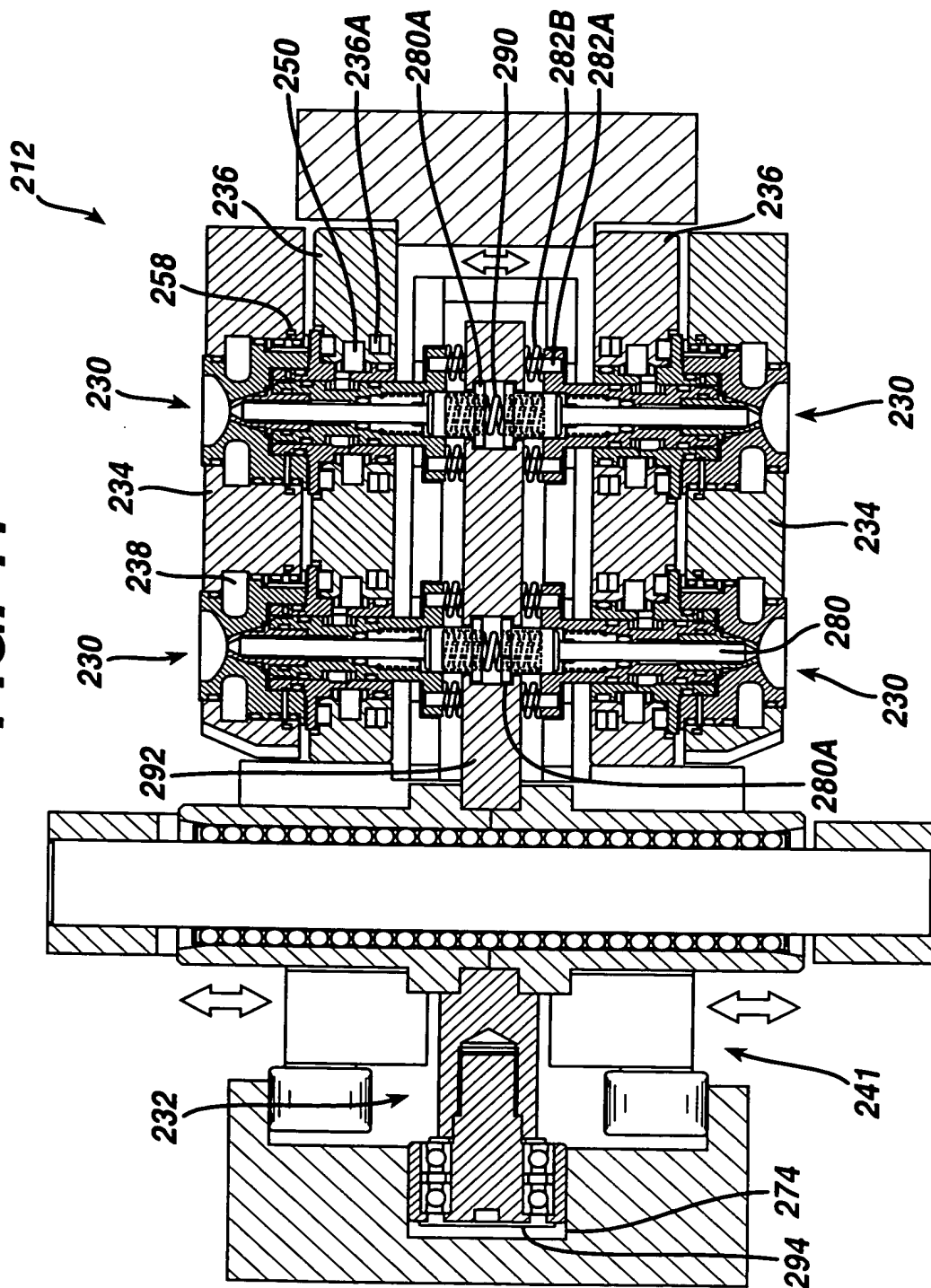
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**FIG. 40**



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**FIG. 41**



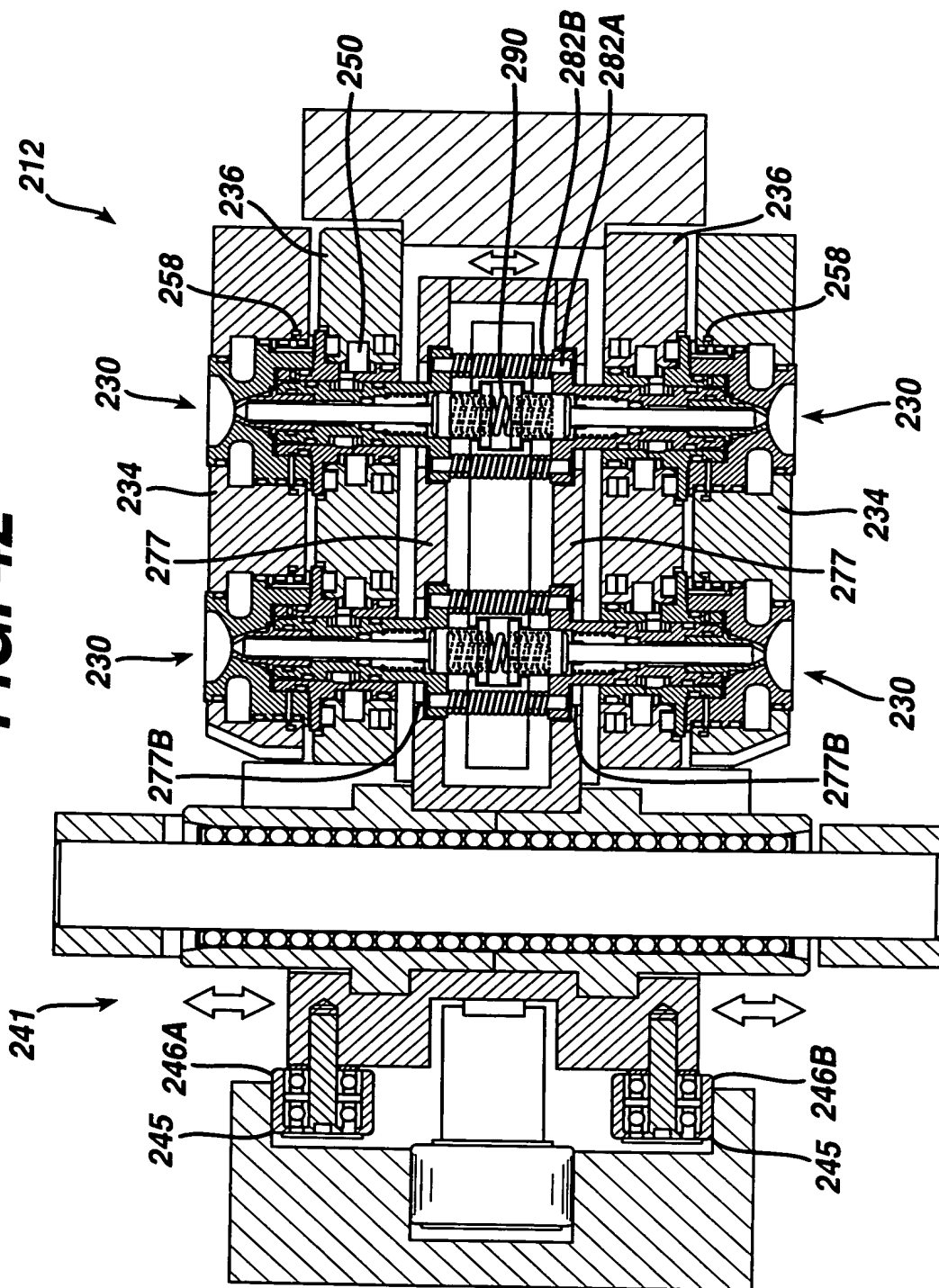


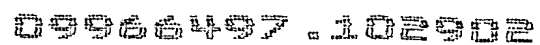
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INVENTOR(S): Sowden, et al.  
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FIG. 42





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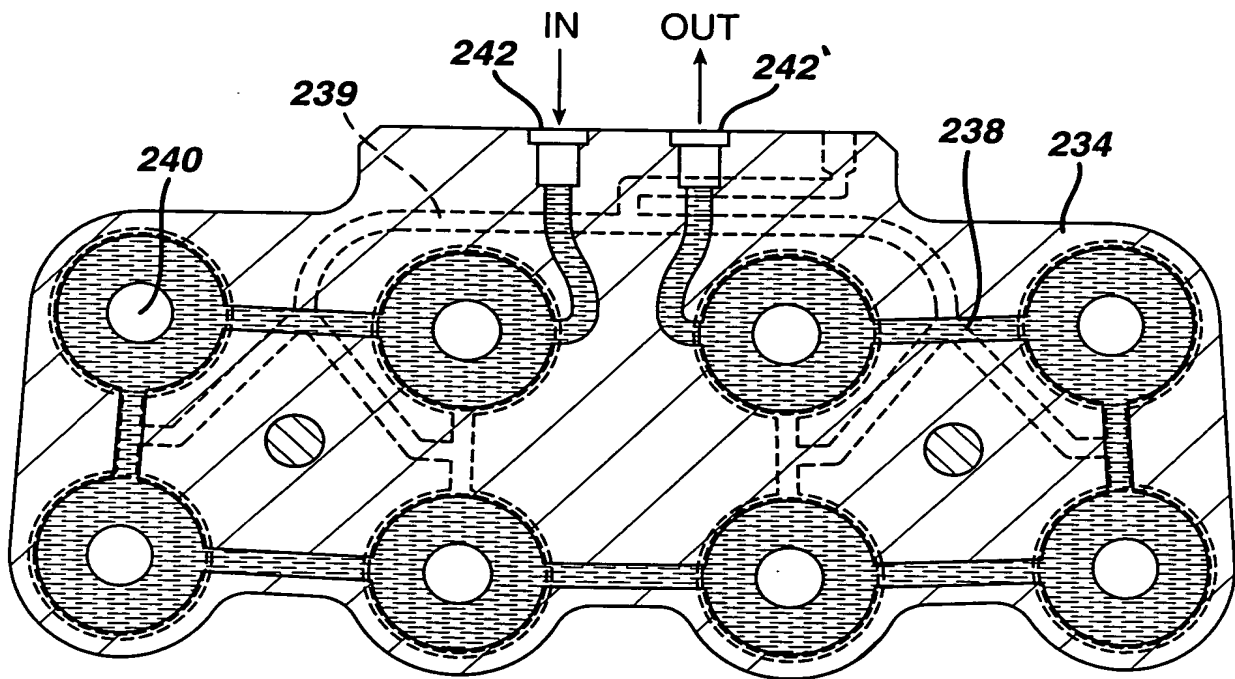


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INVENTOR(S): Sowden, et al.  
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**FIG. 44**



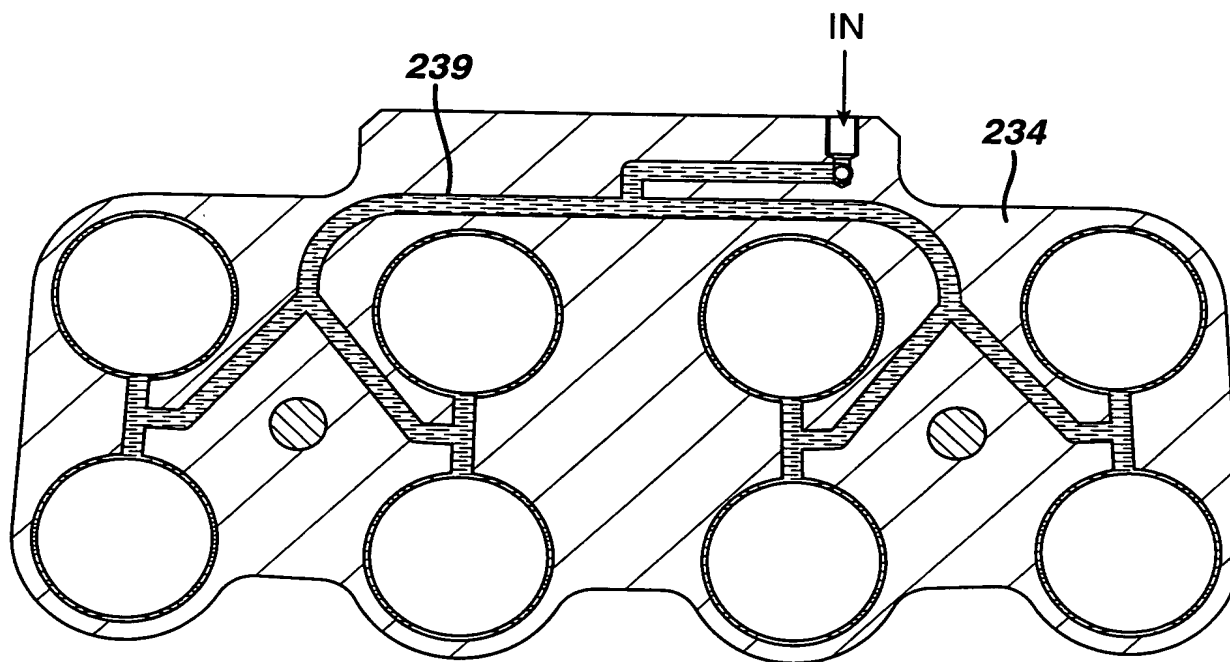


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INVENTOR(S): Sowden, et al.  
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**FIG. 45**





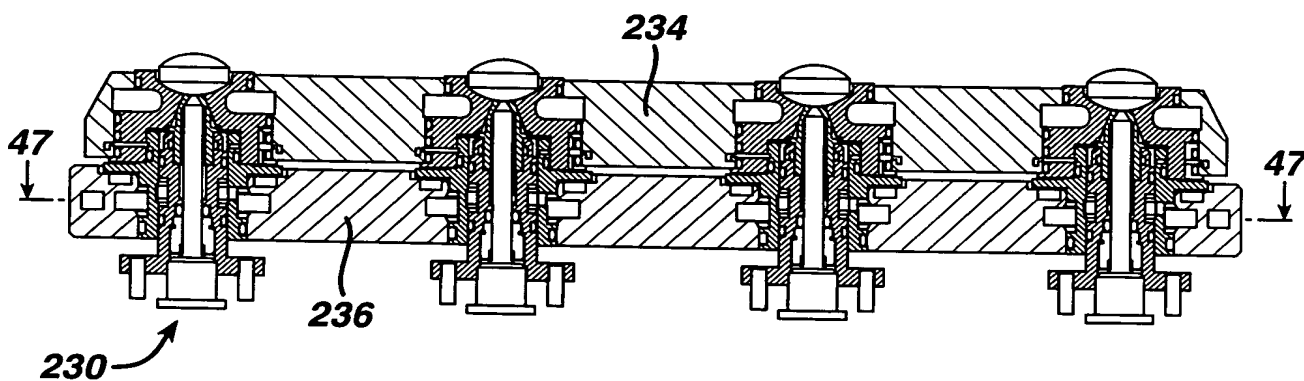


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INVENTOR(S): Sowden, et al.  
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**FIG. 46**



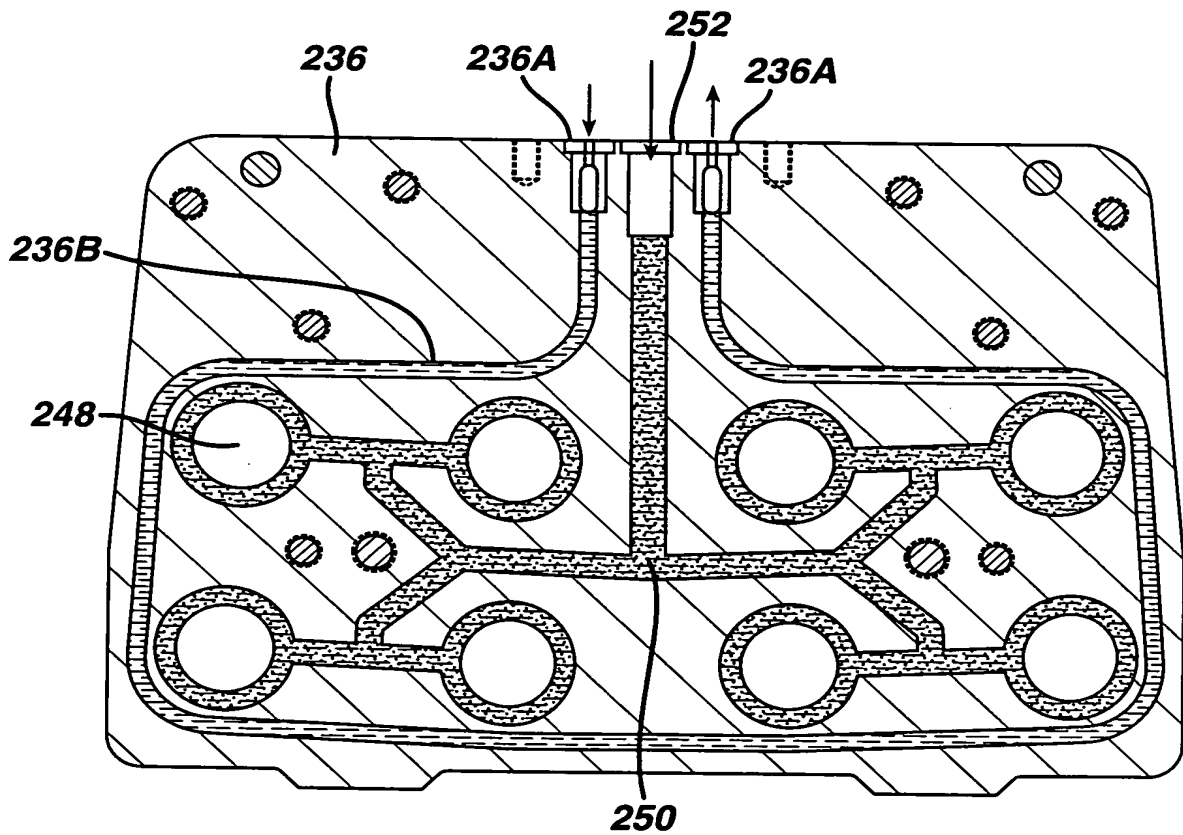


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INVENTOR(S): Sowden, et al.  
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**FIG. 47**





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FIG. 50

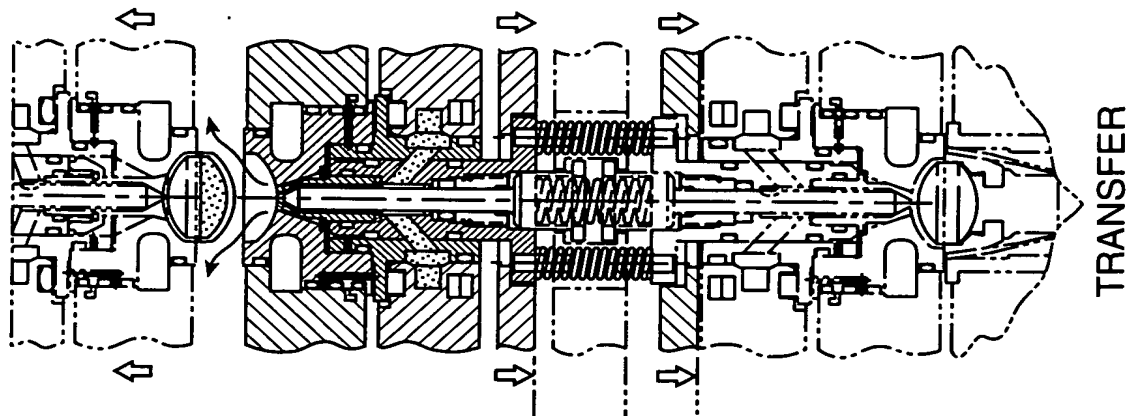


FIG. 49

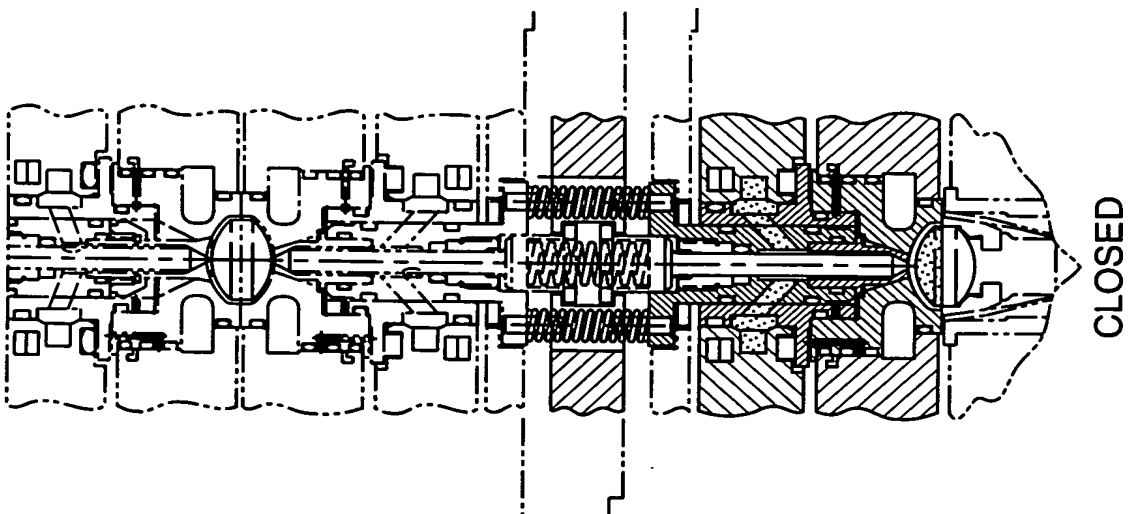
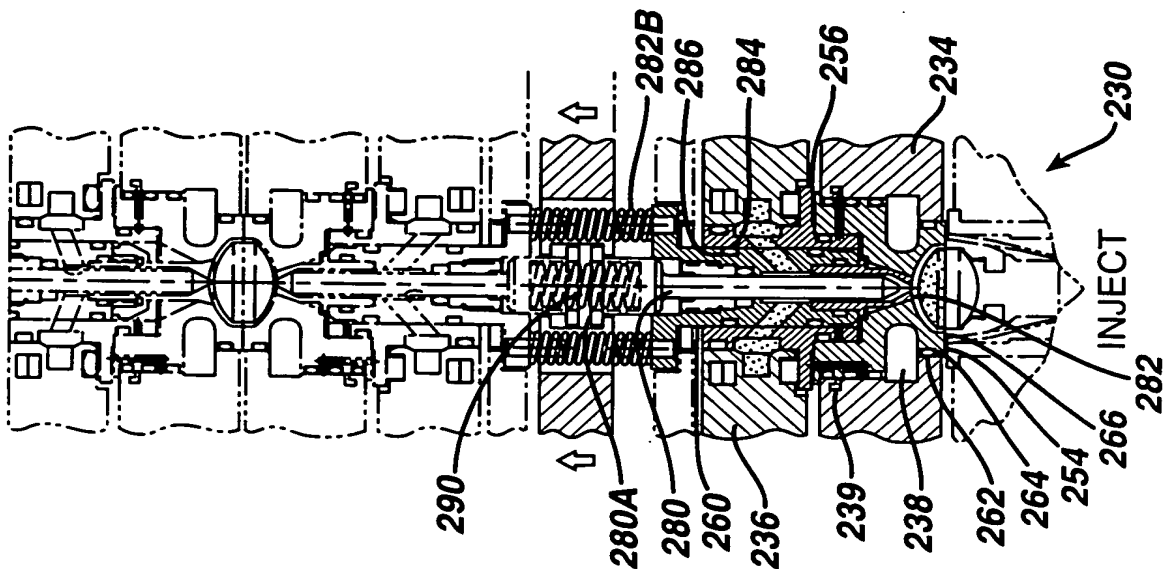
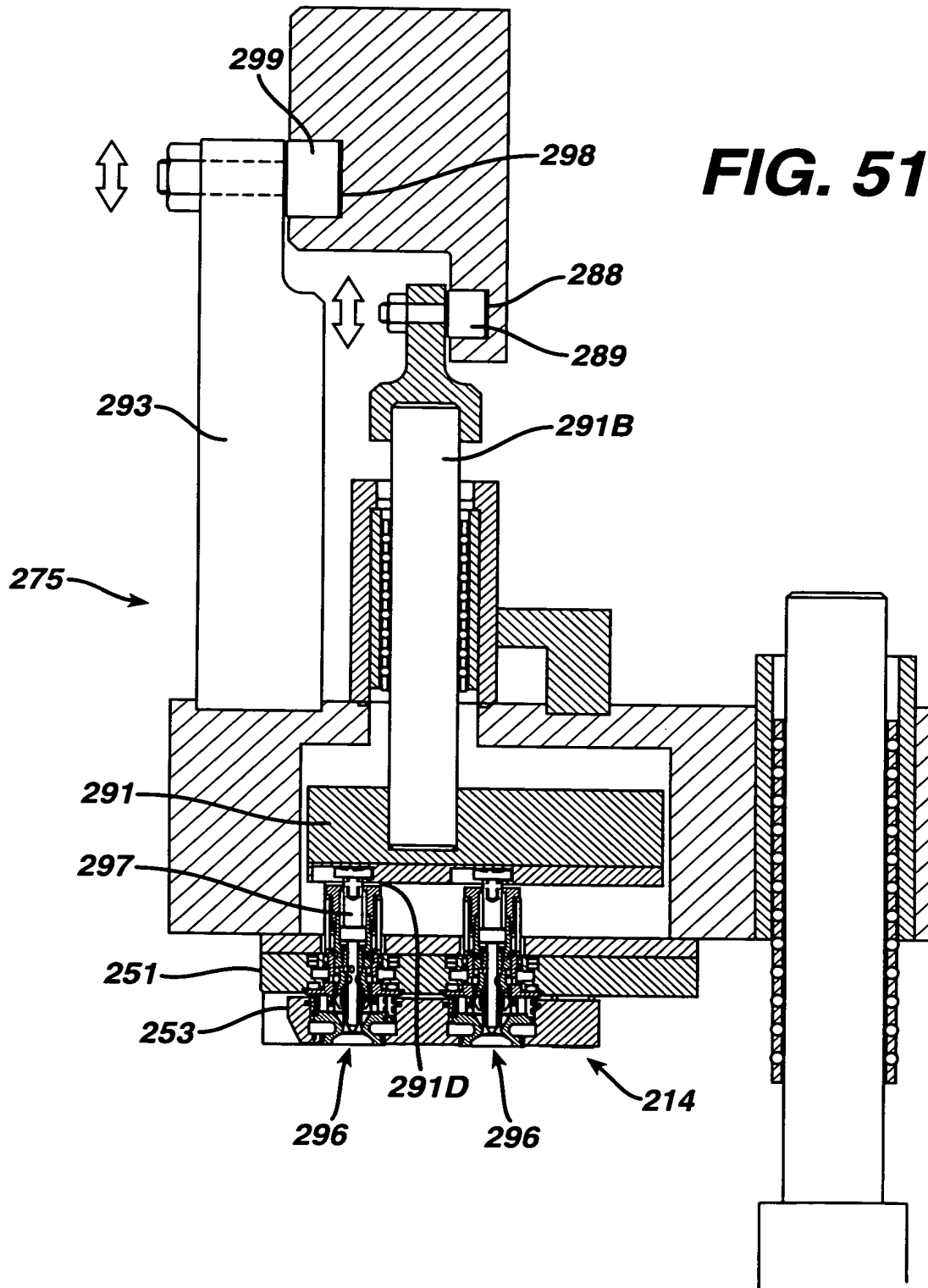


FIG. 48



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**INVENTOR(S): Sowden, et al.**  
**APP#: 09/966,497**  
**ATTY: S. E. Hayner**                      **TEL. #: 732-524-2242**  
**DOCKET #: MCP-0294**                      **CUST. #: 000027777**

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INVENTOR(S): Sowden, et al.  
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FIG. 54

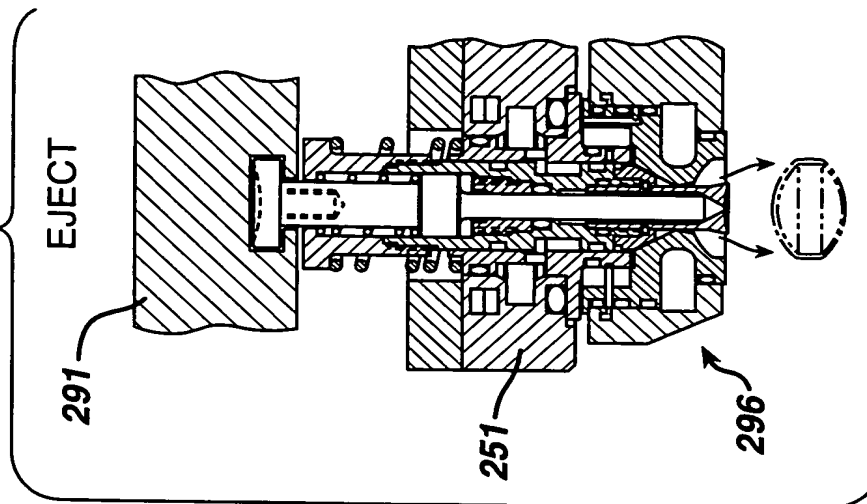


FIG. 53

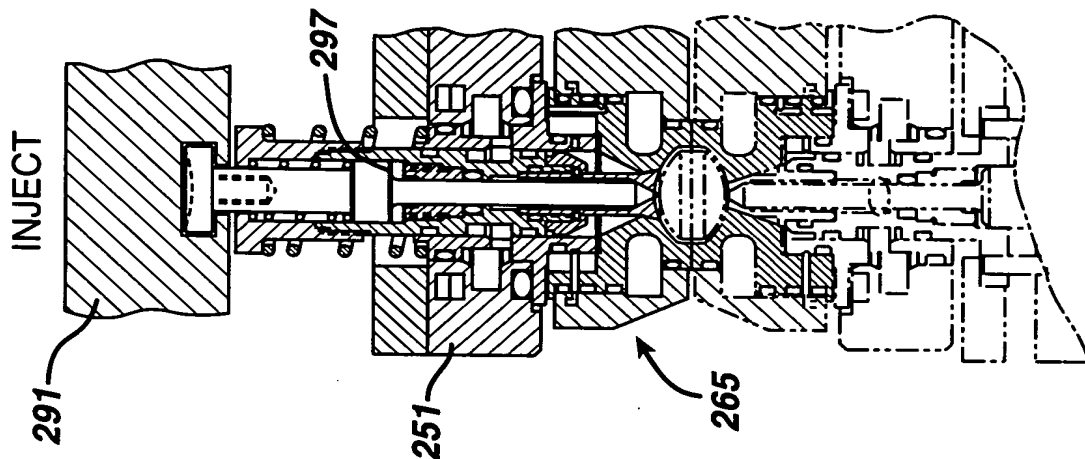
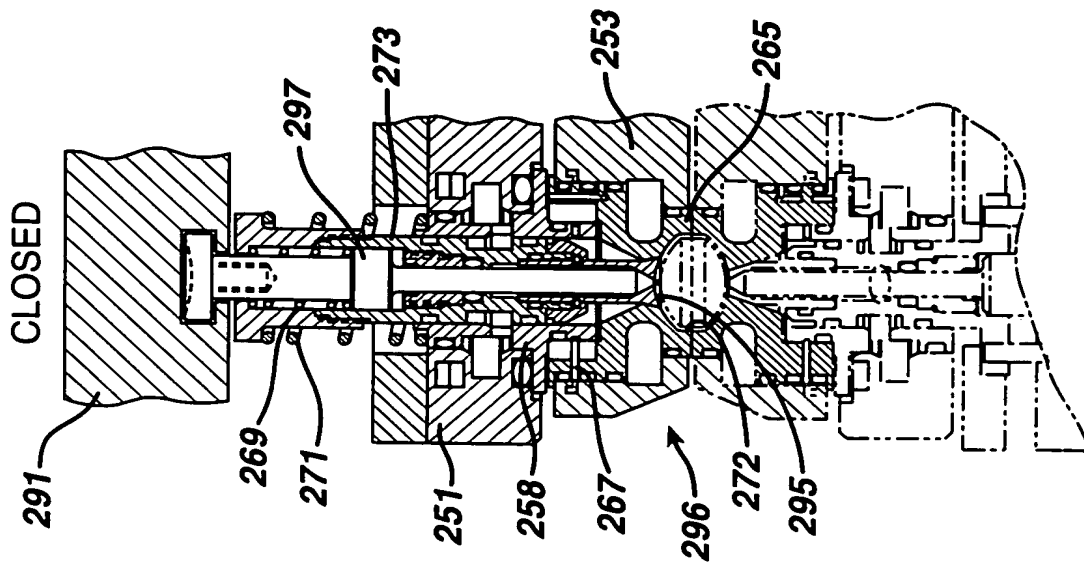


FIG. 52



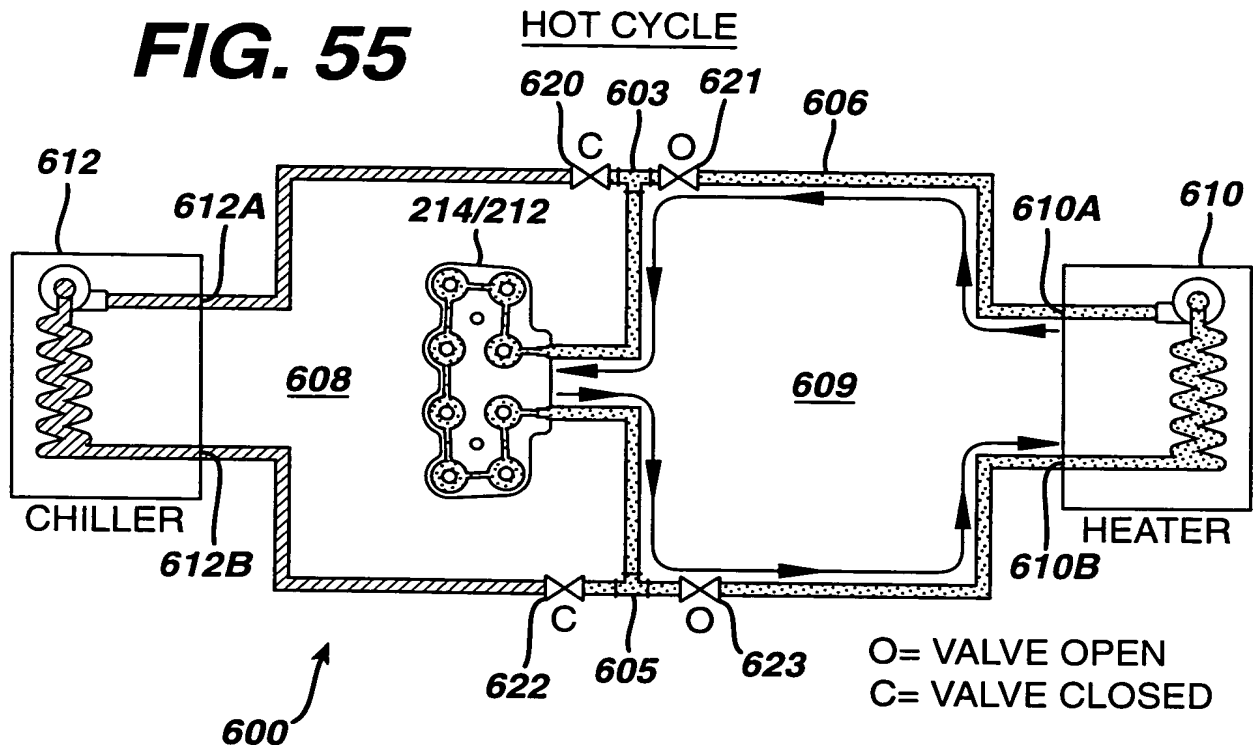
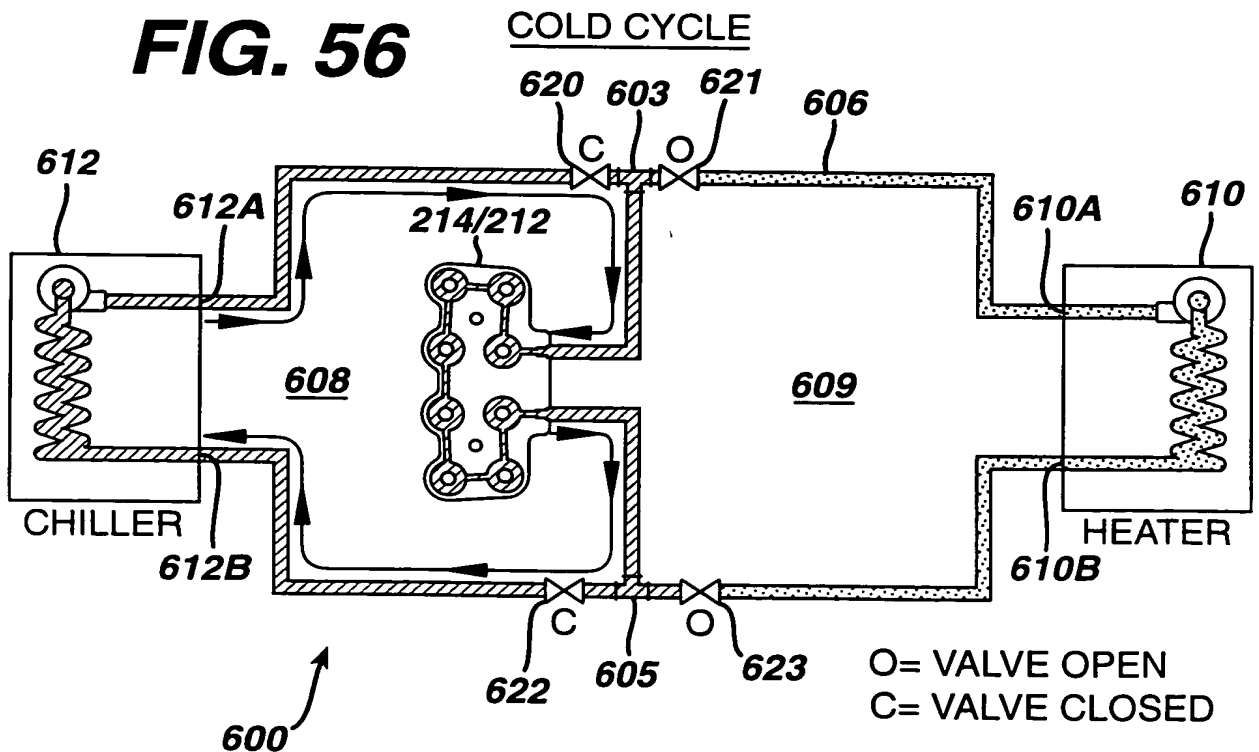


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**FIG. 55****FIG. 56**



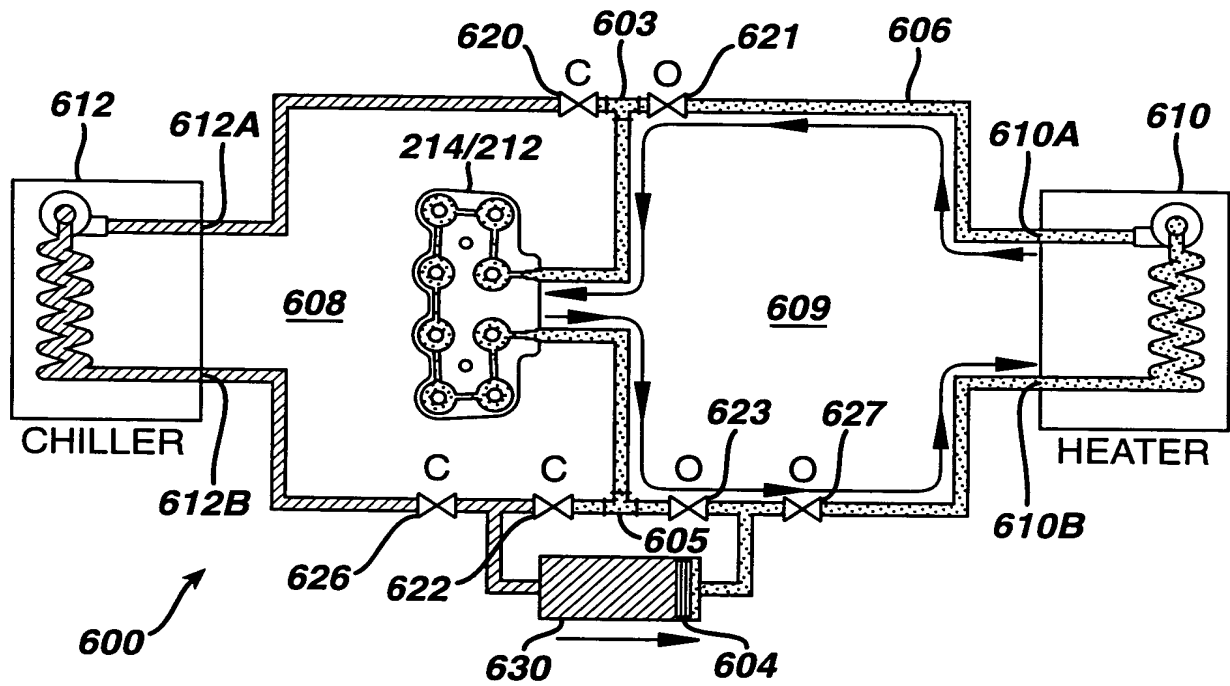


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**FIG. 59**



O= VALVE OPEN  
C= VALVE CLOSED

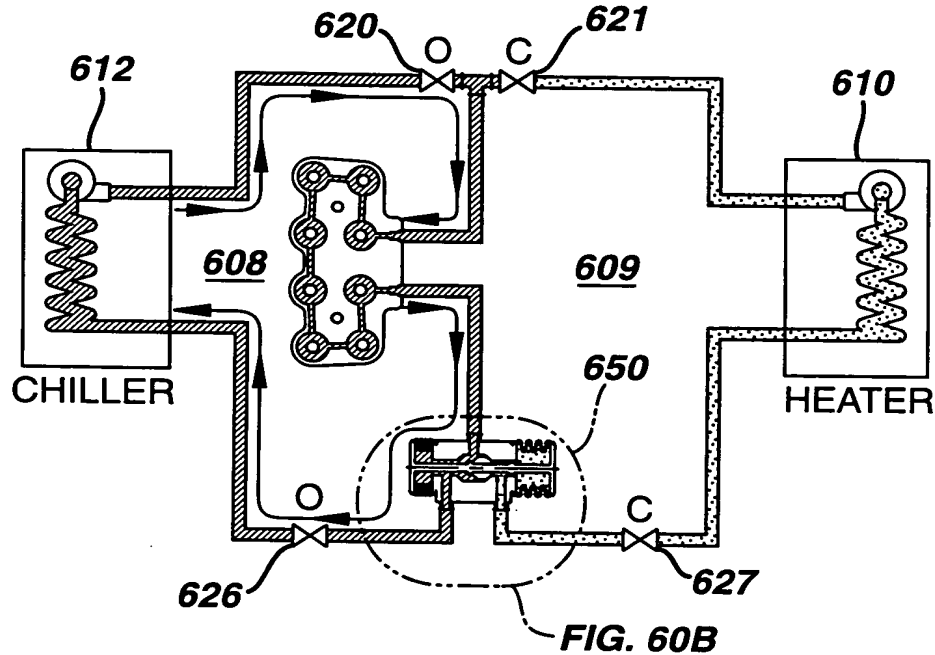




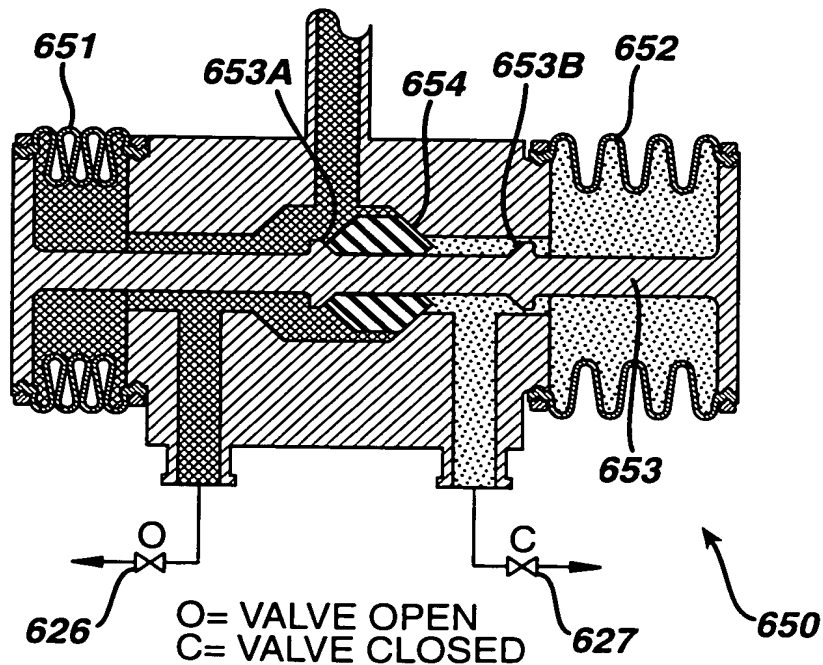
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INVENTOR(S): Sowden, et al.  
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ATTY: S. E. Hayner TEL. #: 732-524-2242  
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**FIG. 60A**

O= VALVE OPEN  
C= VALVE CLOSED

**FIG. 60B**

O= VALVE OPEN  
C= VALVE CLOSED

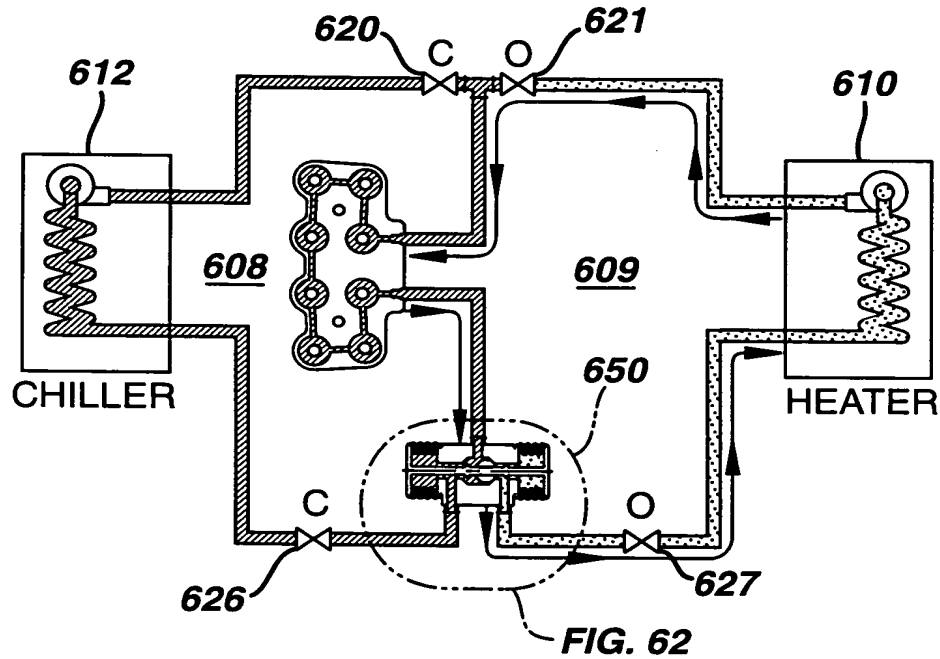


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TITLE: THERMAL CYCLE MOLDING  
INVENTOR(S): Sowden, et al.  
APP#: 09/966,497  
ATTY: S. E. Hayner TEL. #: 732-524-2242  
DOCKET #: MCP-0294 CUST. #: 000027777

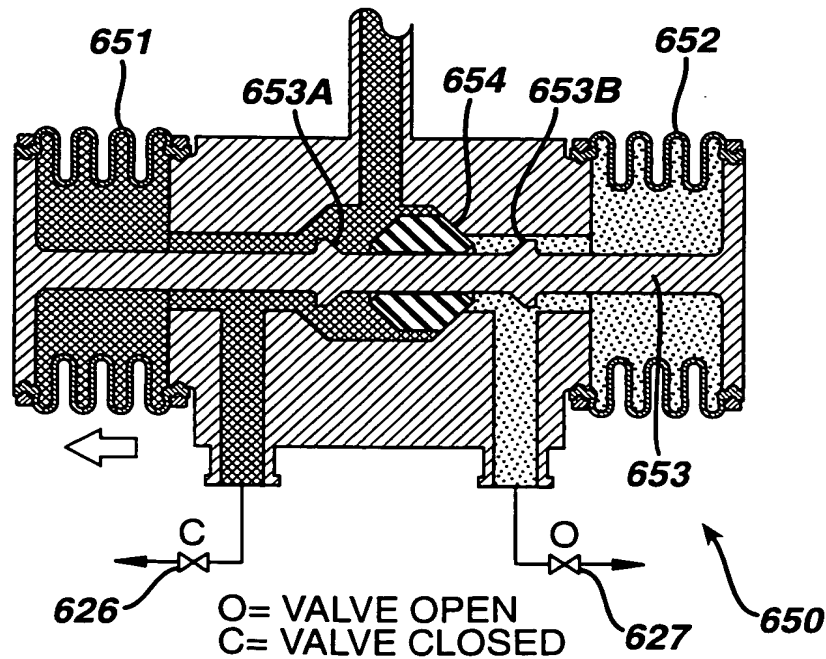
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**FIG. 61**



O= VALVE OPEN  
C= VALVE CLOSED

**FIG. 62**



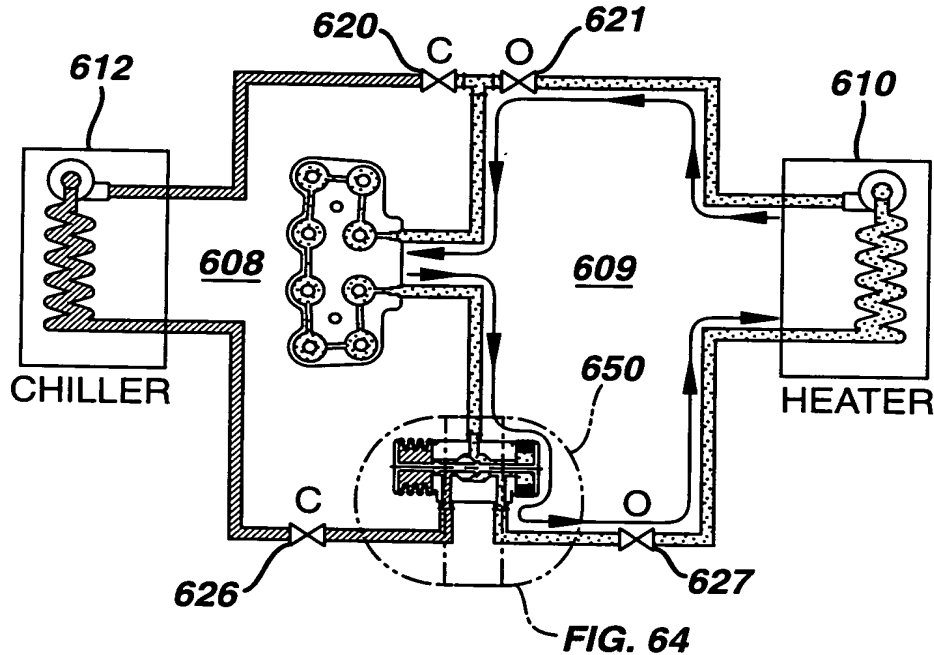
O= VALVE OPEN  
C= VALVE CLOSED



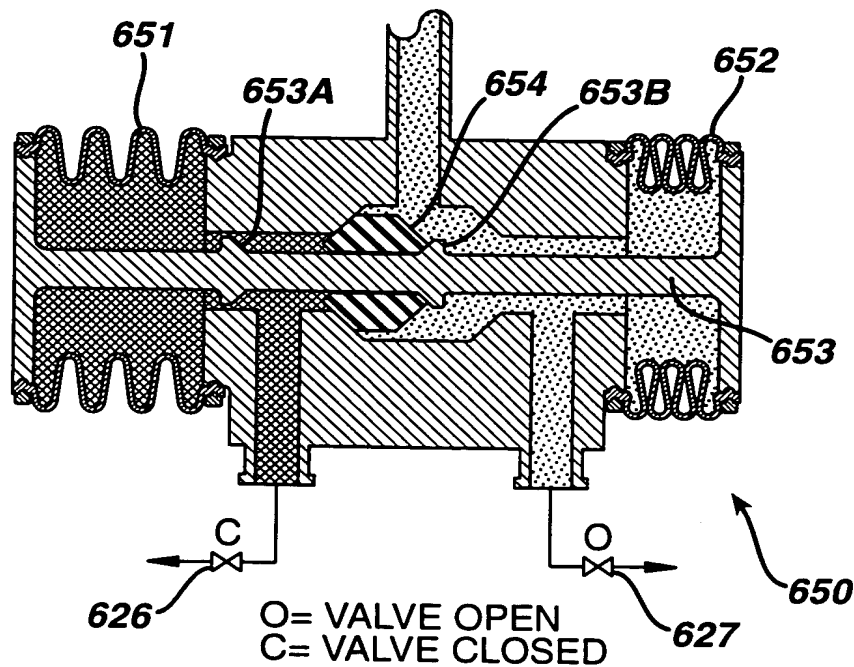
09966497.102902

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INVENTOR(S): Sowden, et al.  
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ATTY: S. E. Hayner TEL. #: 732-524-2242  
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**FIG. 63**

O = VALVE OPEN  
C = VALVE CLOSED

**FIG. 64**

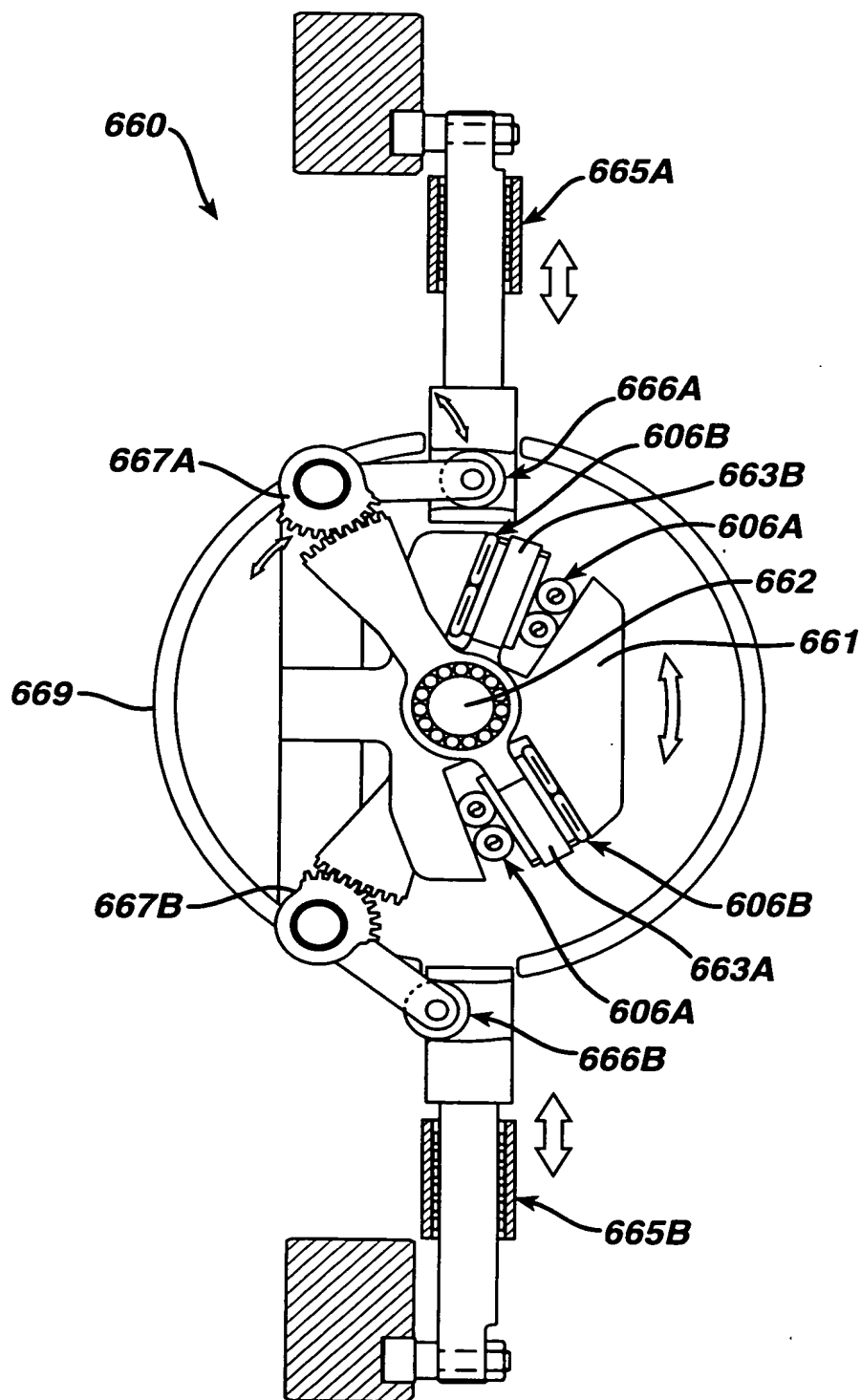
O = VALVE OPEN  
C = VALVE CLOSED



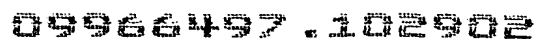
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INVENTOR(S): Sowden, et al.  
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**FIG. 65**

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660

665A

662

667A

666A

667B

606B

663B

606A

661

666B

606A

663A

606B

665B

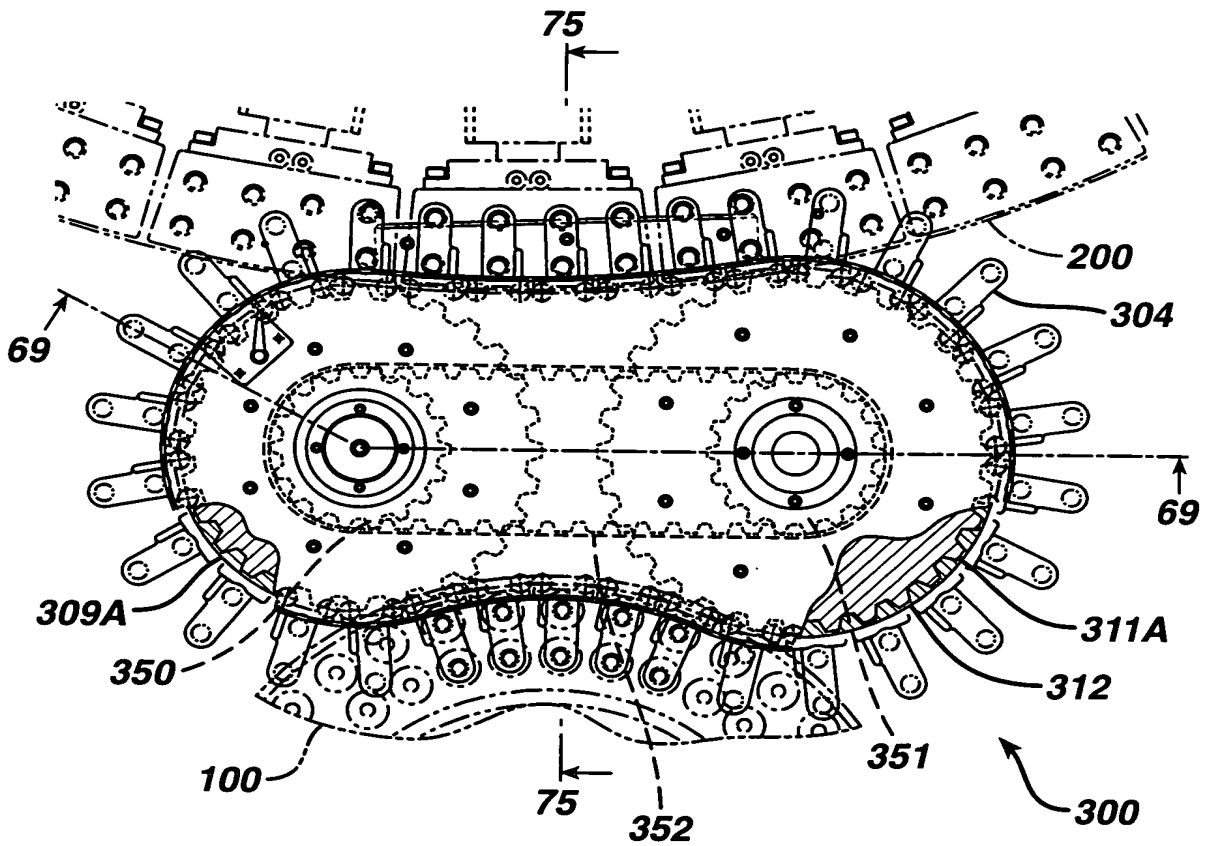


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INVENTOR(S): Sowden, et al.  
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**FIG. 68**



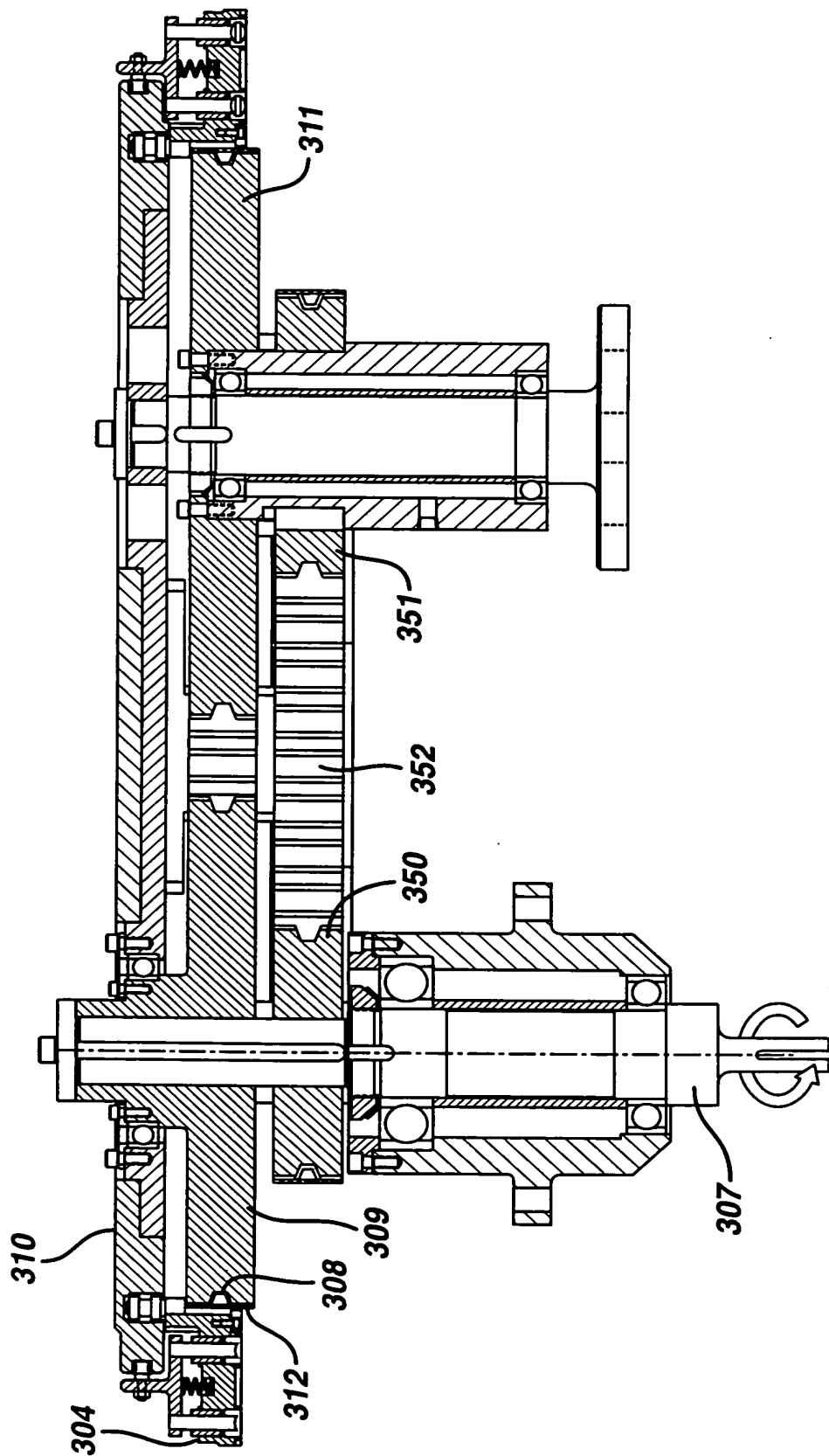


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TITLE: THERMAL CYCLE MOLDING  
INVENTOR(S): Sowden, et al.  
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FIG. 69







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FIG. 72

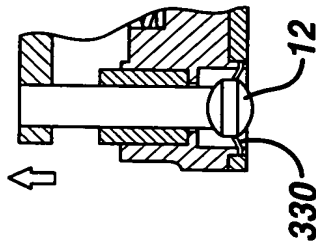


FIG. 73

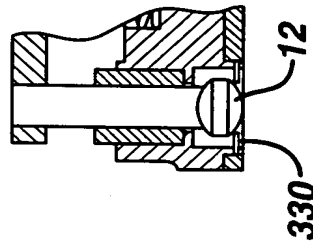


FIG. 74

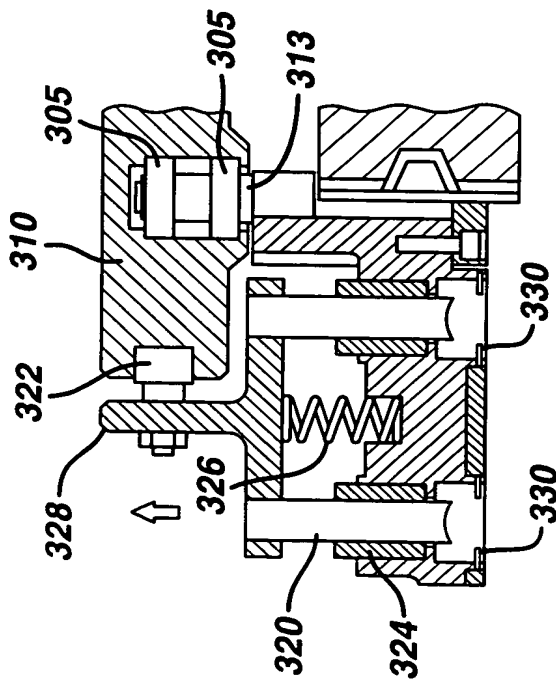
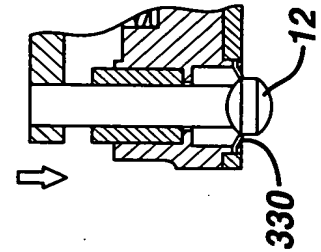


FIG. 70

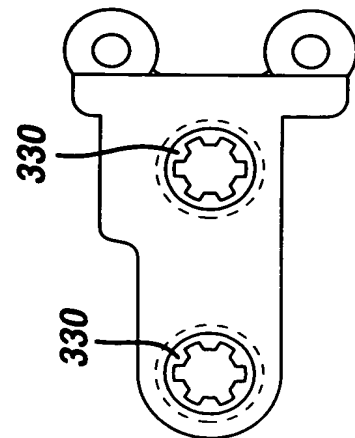


FIG. 71



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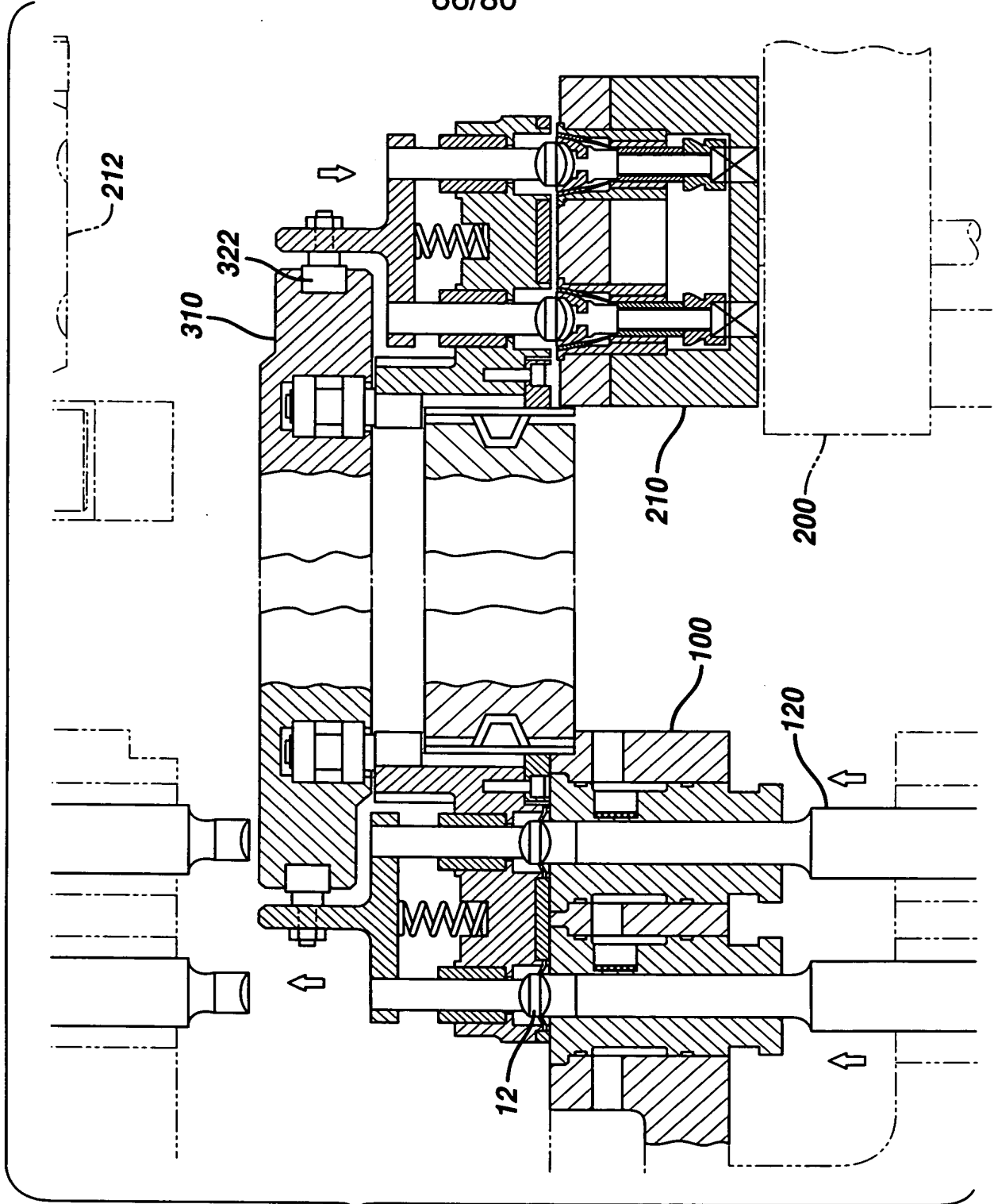
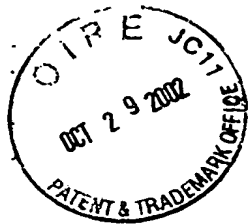


FIG. 75

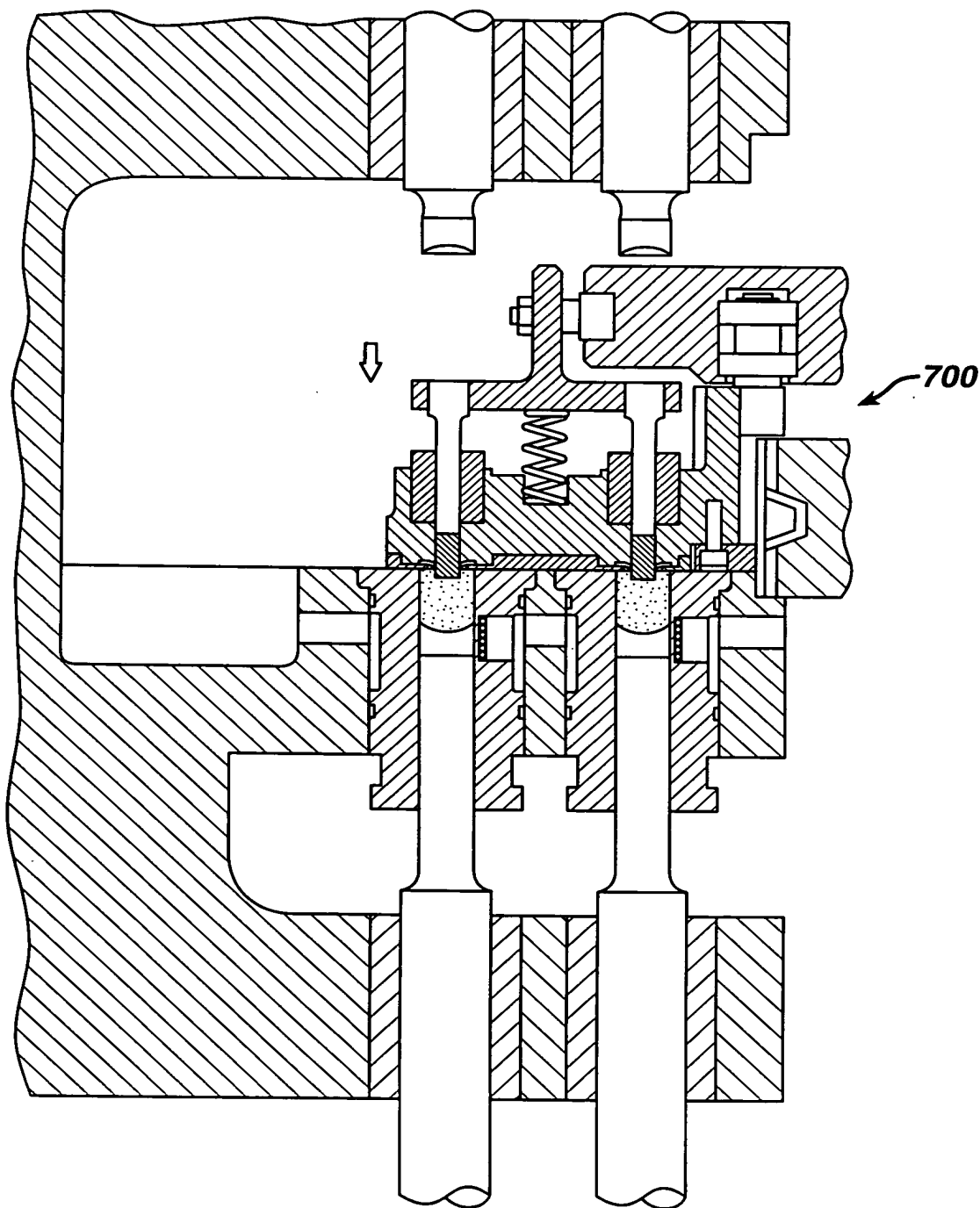


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**FIG. 76**



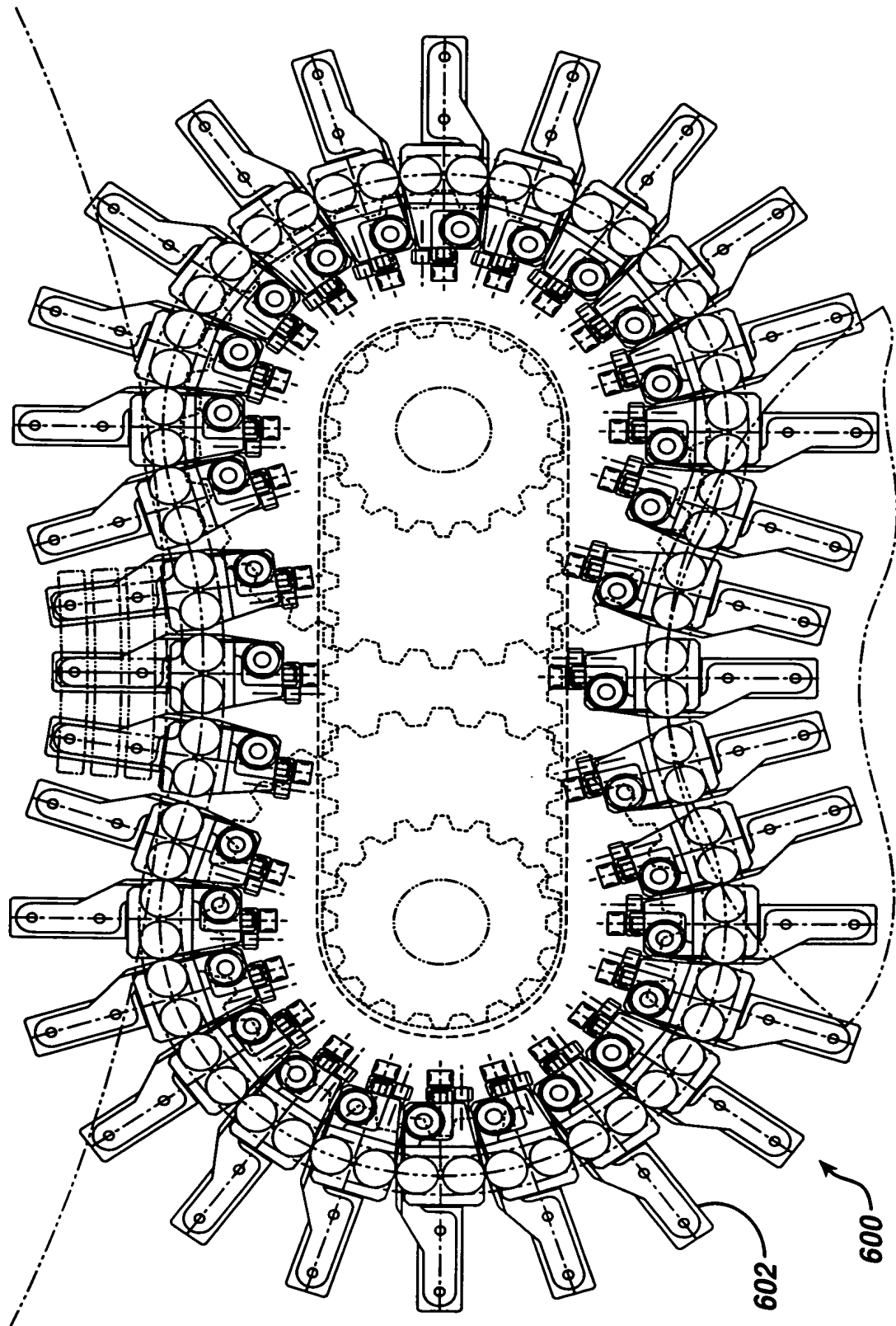


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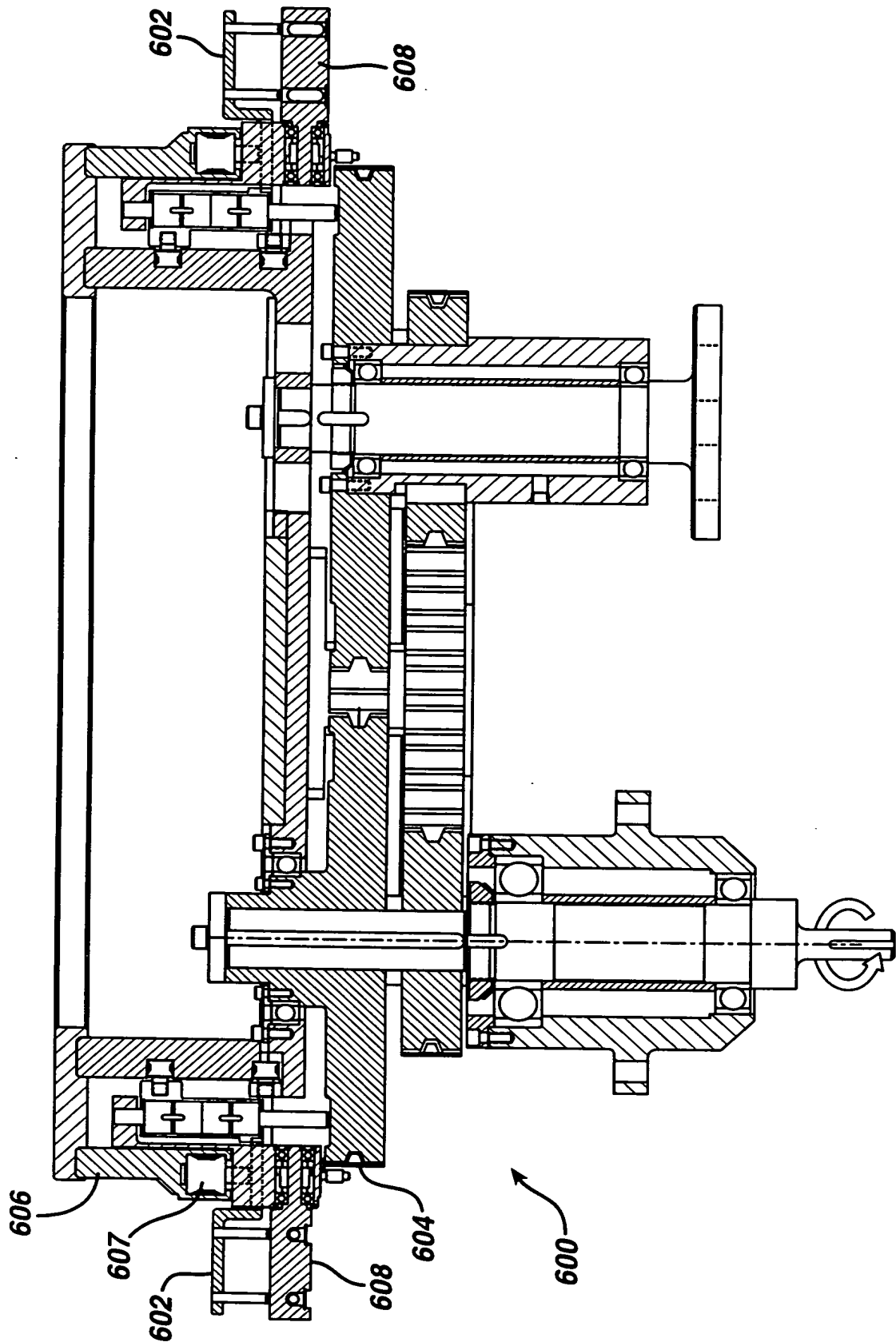
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FIG. 77



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**FIG. 78**



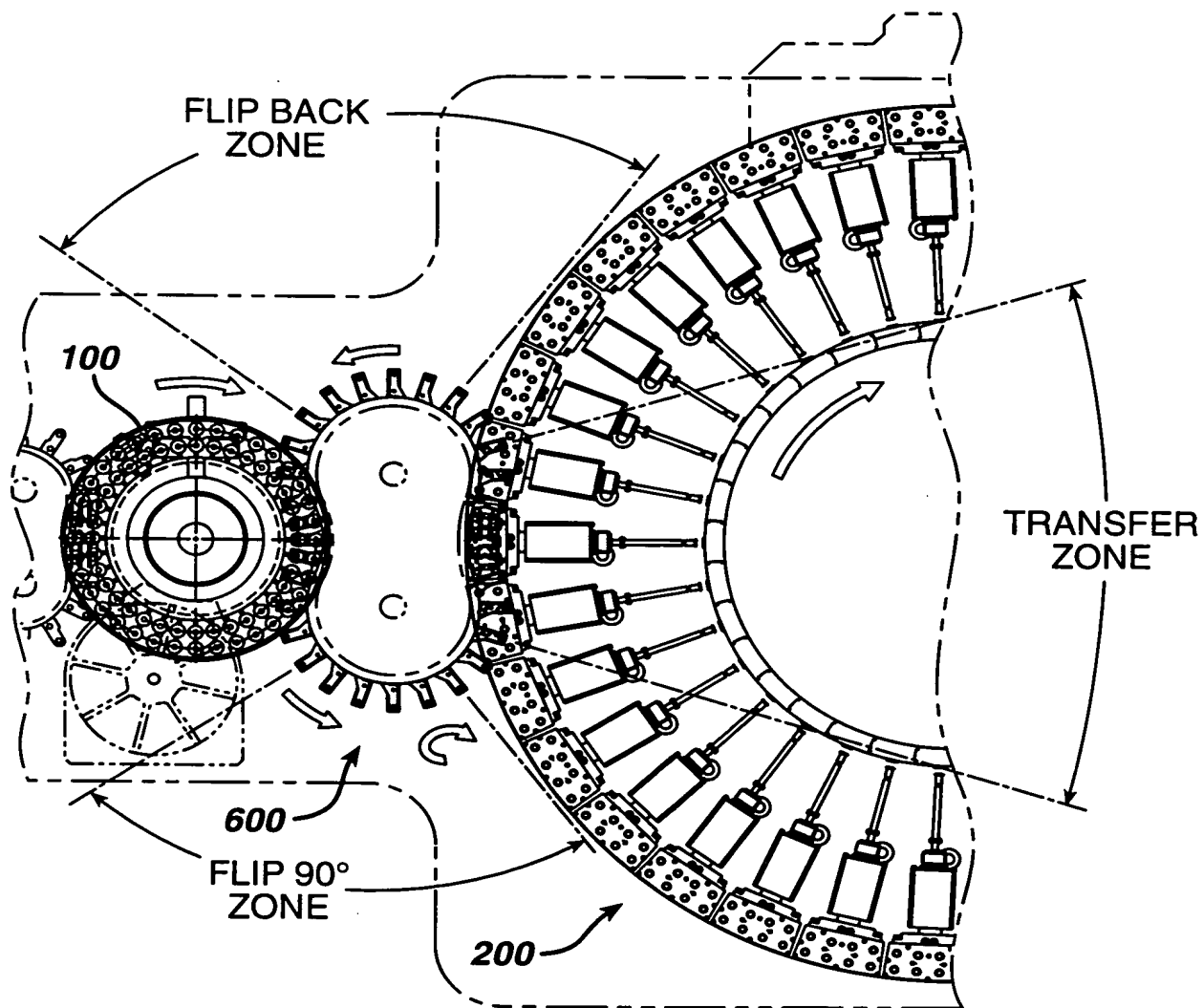


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**FIG. 79**



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FIG. 6 is a cross-sectional view of a mechanical assembly. A central shaft (600) is shown with a pin (604) and a spring (606) mechanism. The assembly is housed within a structure (100) with various components labeled 607, 608, 612, 616, 618, 620, 622 & 623, 624, 626, 628, 630, and 690.



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FIG. 81D

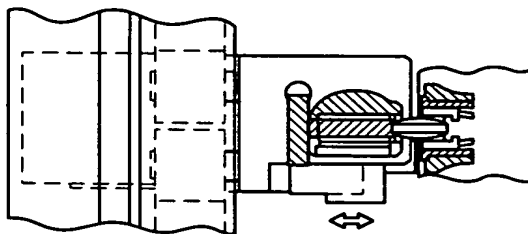


FIG. 81C

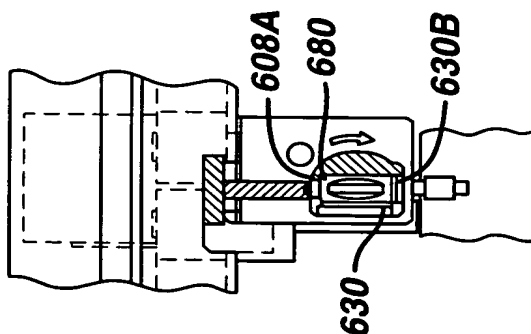


FIG. 81B

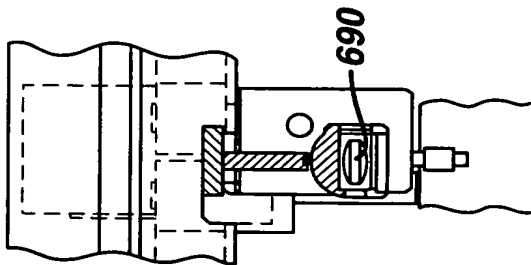
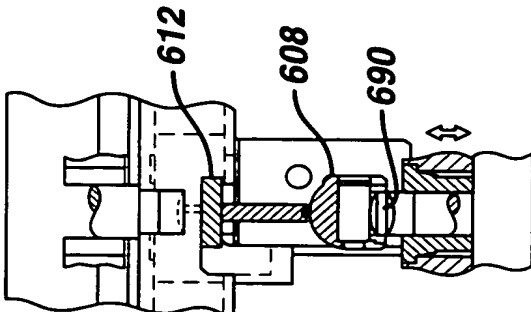


FIG. 81A







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FIG. 81G

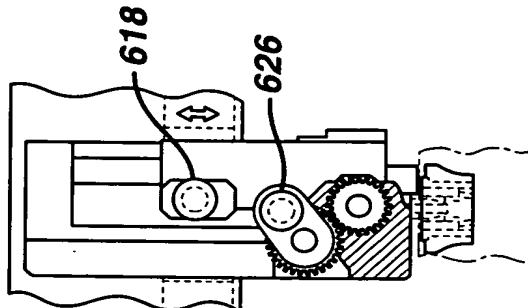


FIG. 81F

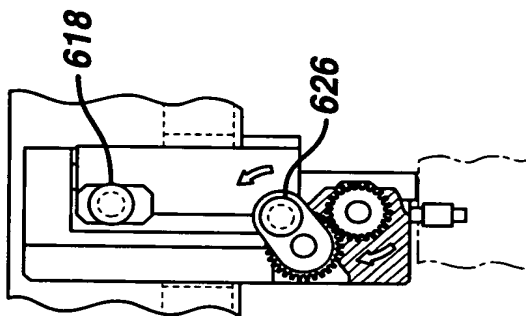
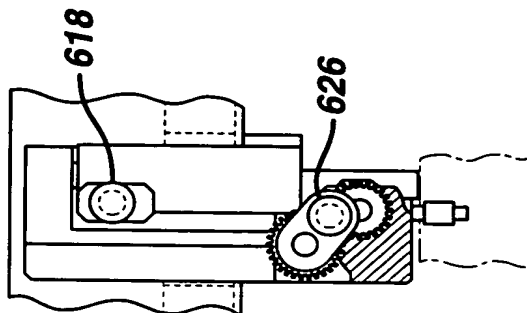


FIG. 81E

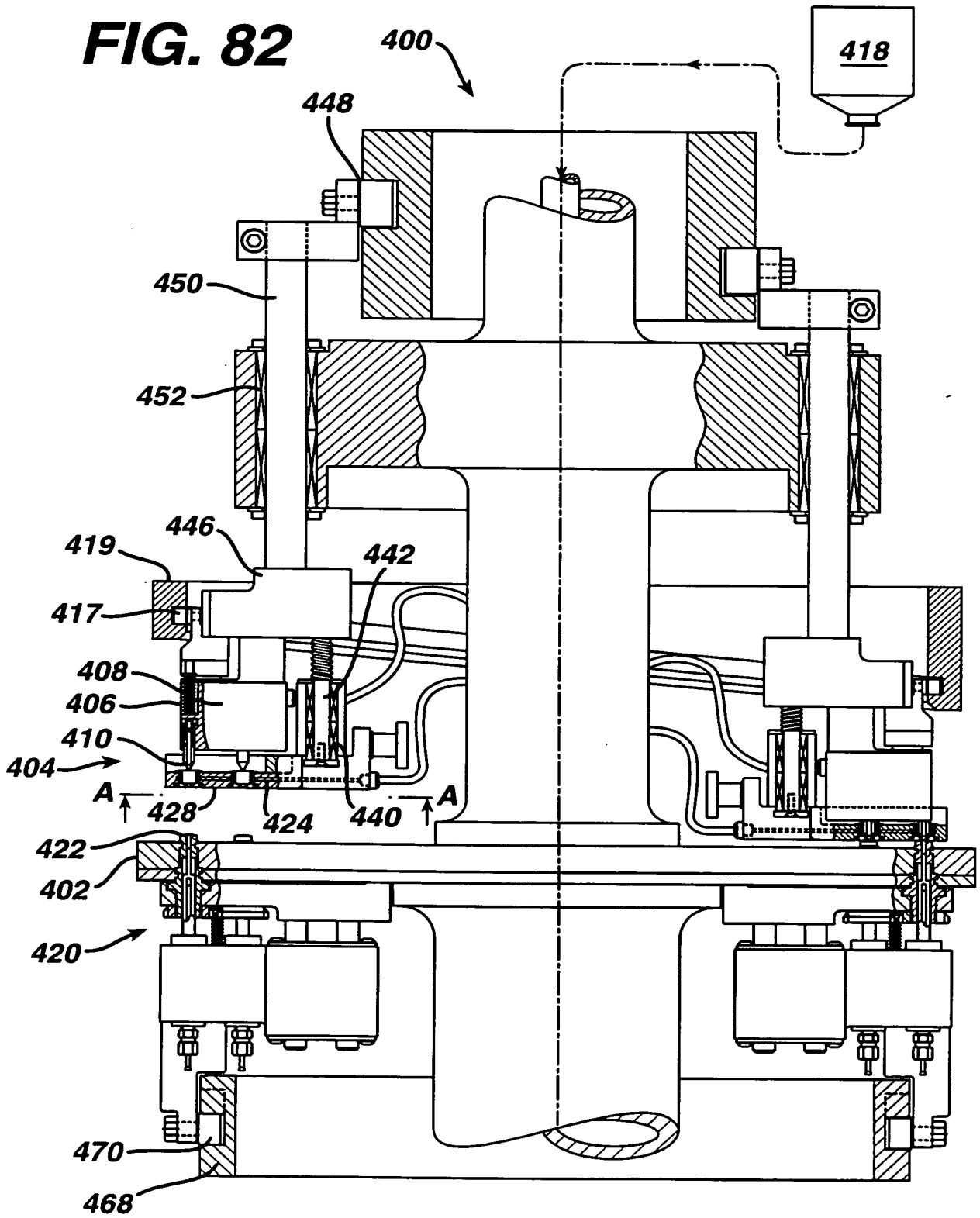




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TITLE: THERMAL CYCLE MOLDING  
INVENTOR(S): Sowden, et al.  
APP#: 09/966,497  
ATTY: S. E. Hayner TEL. #: 732-524-2242  
DOCKET #: MCP-0294 CUST. #: 000027777

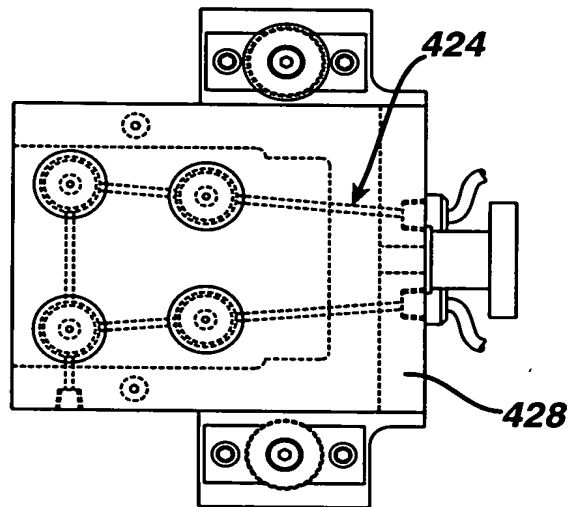
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**FIG. 82**



TITLE: THERMAL CYCLE MOLDING  
INVENTOR(S): Sowden, et al.  
APP#: 09/966,497  
ATTY: S. E. Hayner TEL. #: 732-524-2242  
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**FIG. 82A**



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FIG. 84

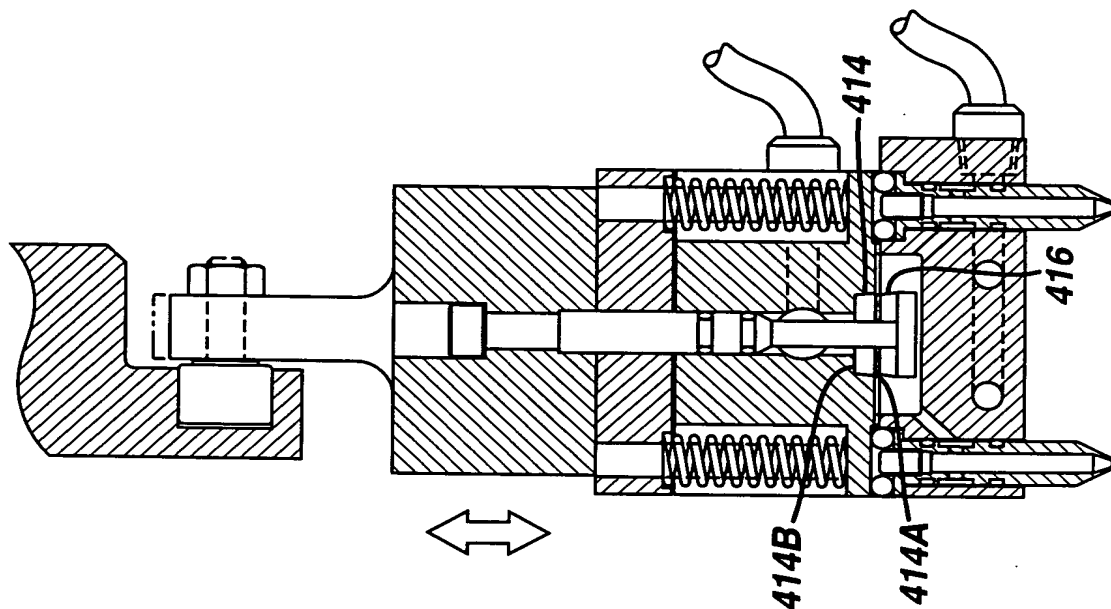
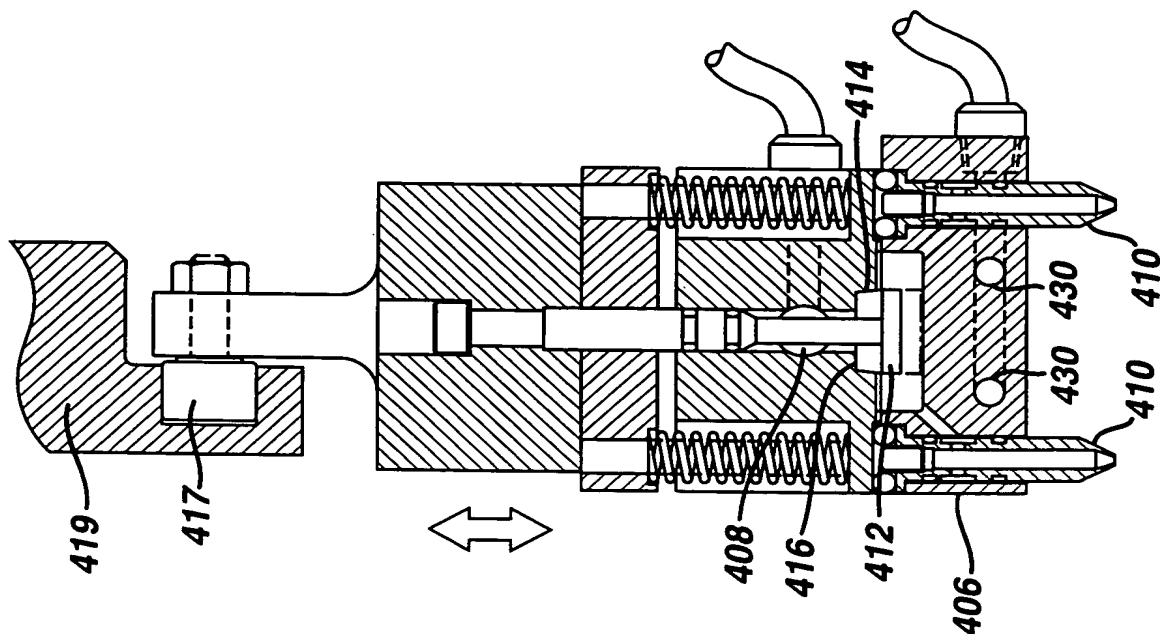


FIG. 83



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ATTY: S. E. Hayner TEL. #: 732-524-2242  
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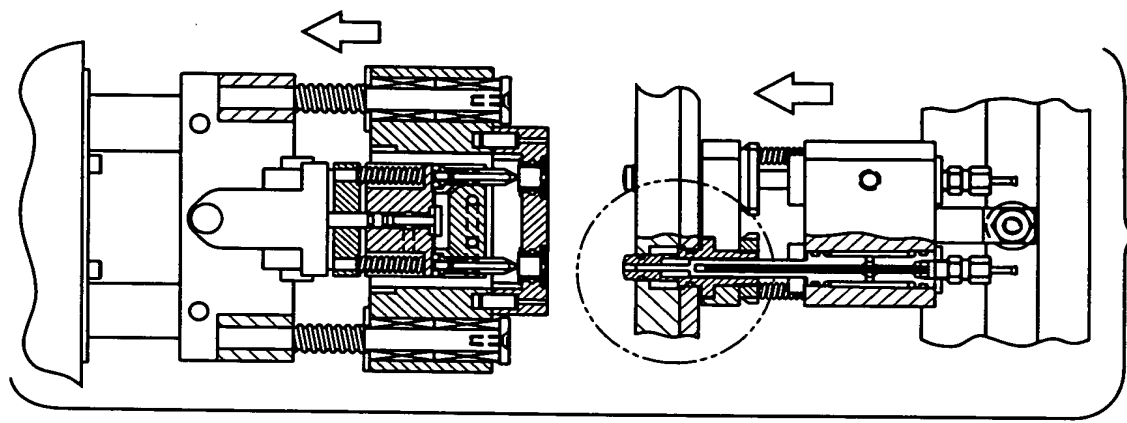


FIG. 85D

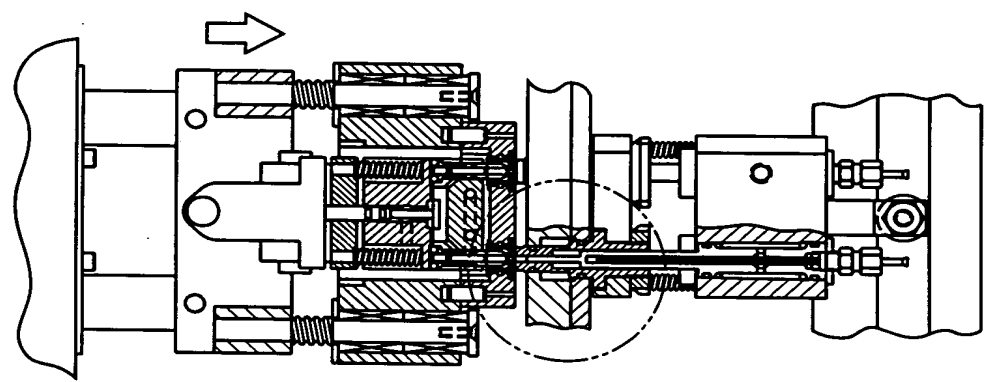


FIG. 85C

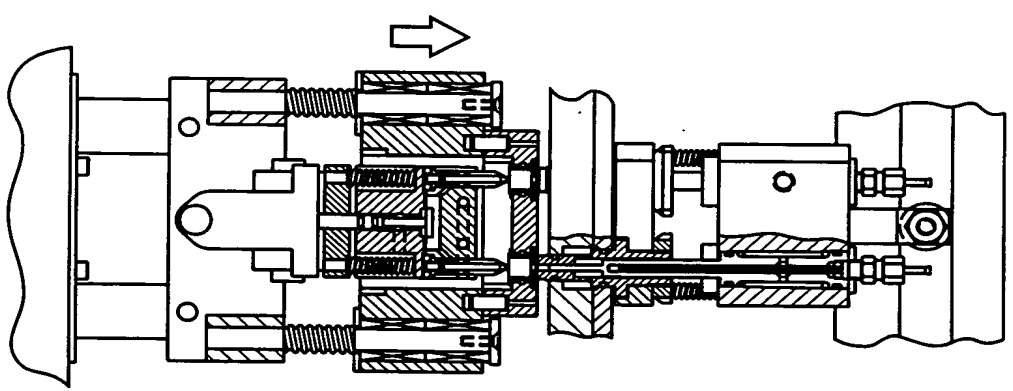


FIG. 85B

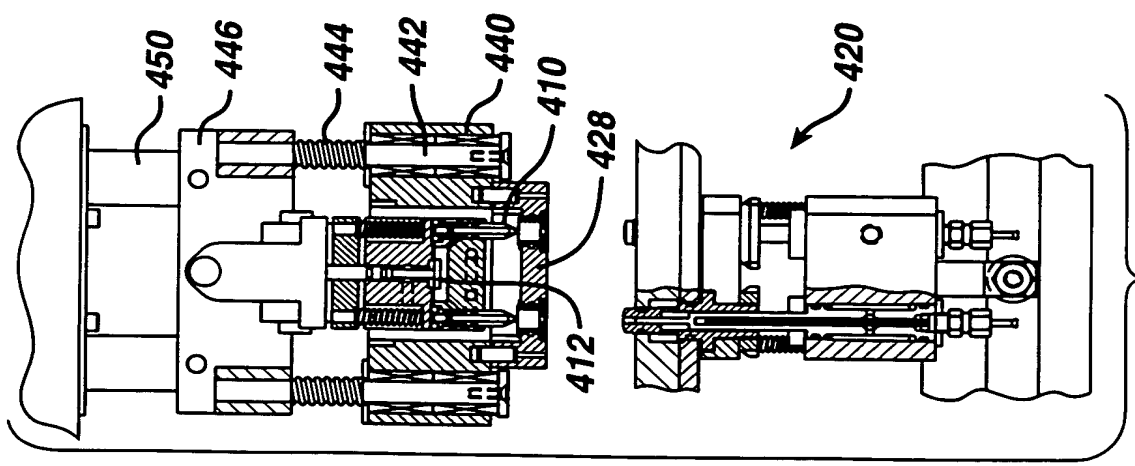


FIG. 85A

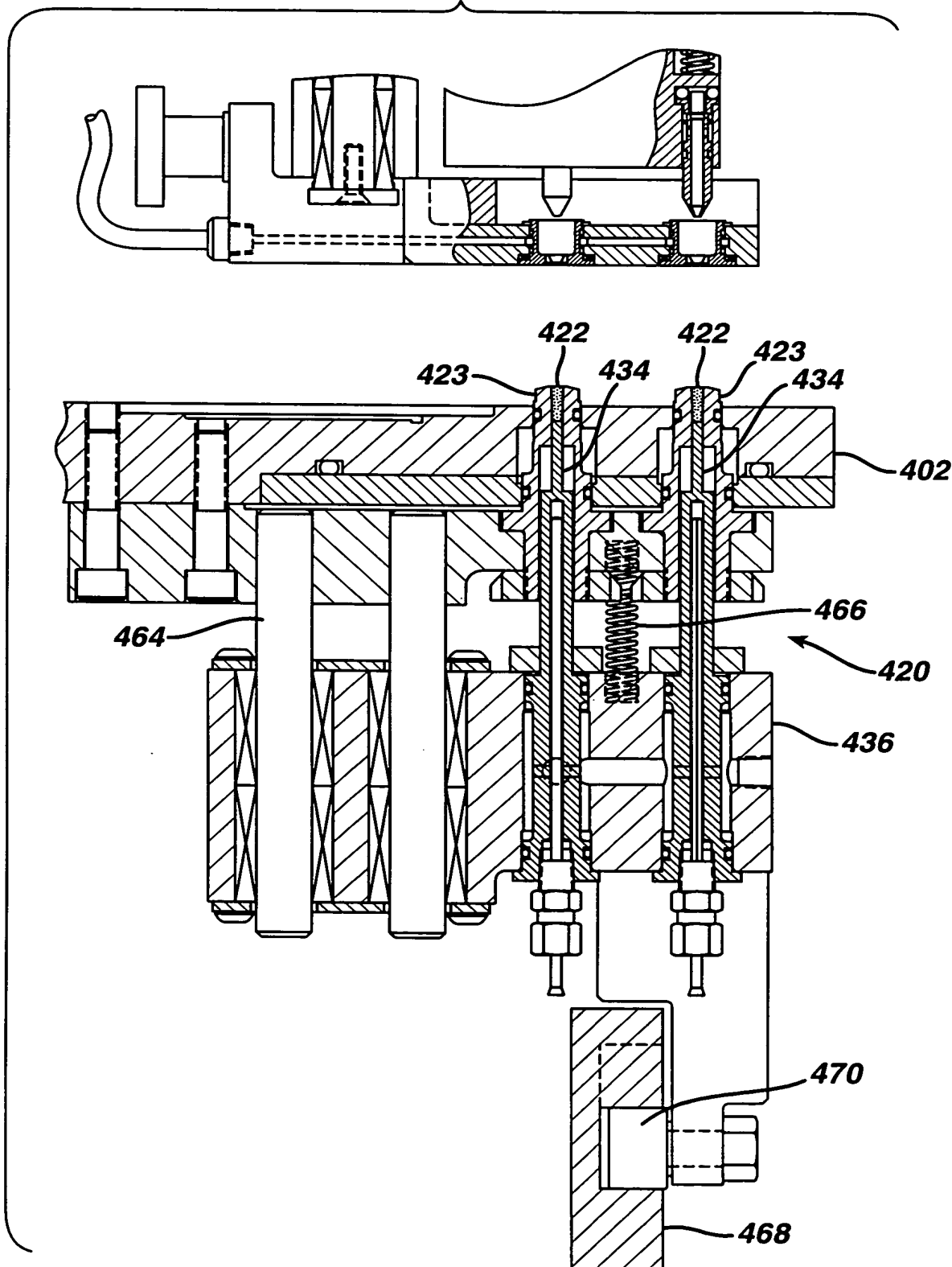


09966497.102902

TITLE: THERMAL CYCLE MOLDING  
INVENTOR(S): Sowden, et al.  
APP#: 09/966,497  
ATTY: S. E. Hayner  
DOCKET #: MCP-0294

TEL. #: 732-524-2242  
CUST. #: 000027777

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**FIG. 86**



09966497.102902

TITLE: THERMAL CYCLE MOLDING  
INVENTOR(S): Sowden, et al.  
APP#: 09/966,497  
ATTY: S. E. Hayner TEL. #: 732-524-2242  
DOCKET #: MCP-0294 CUST. #: 000027777

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FIG. 88

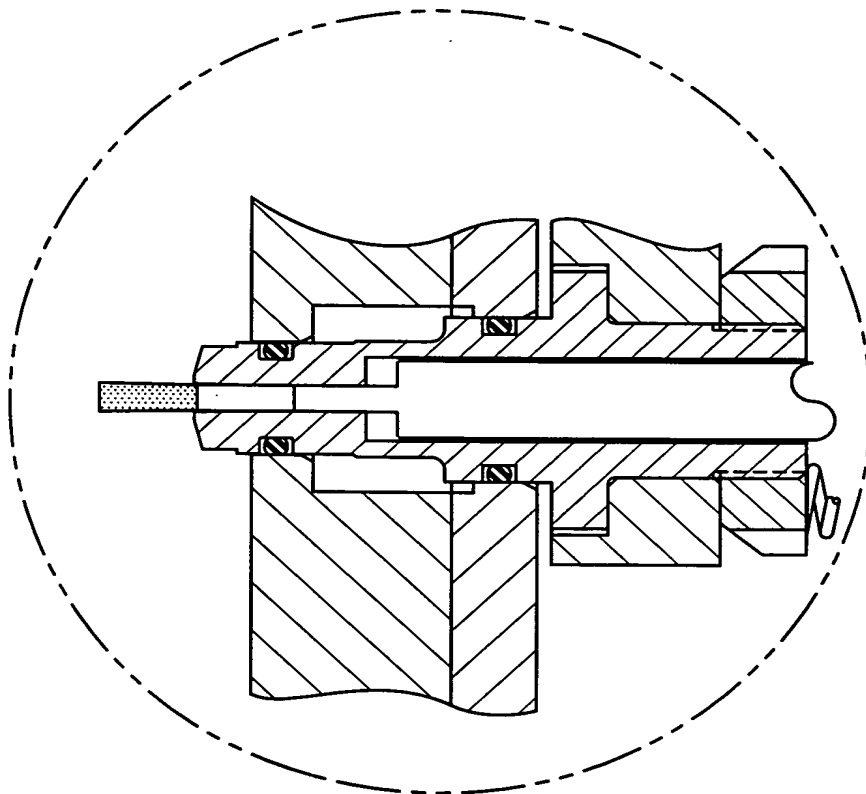
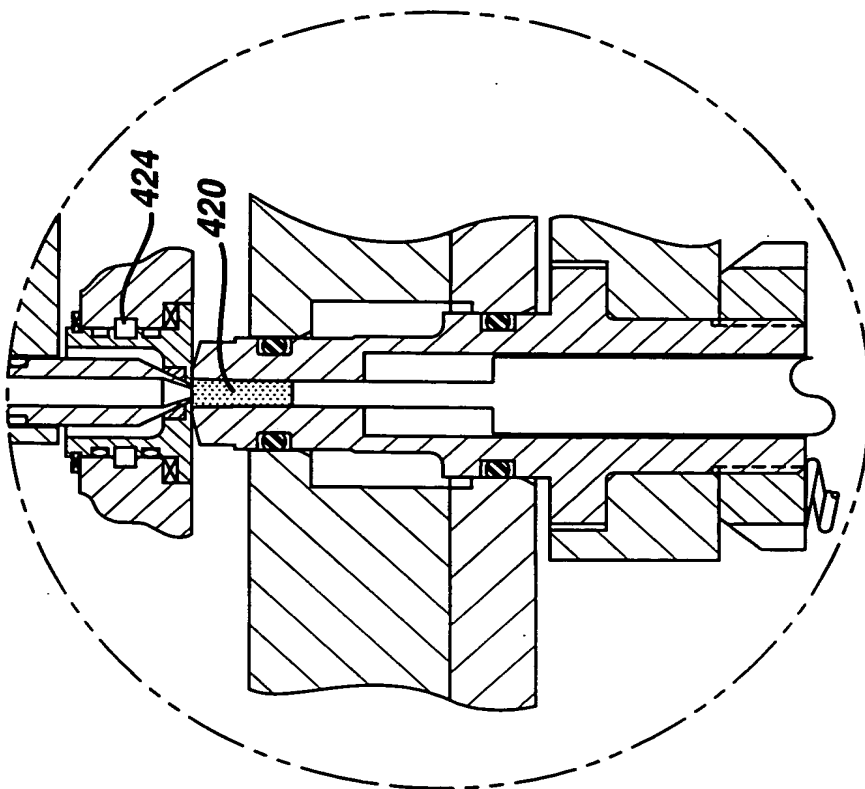


FIG. 87





09966497.102902

TITLE: THERMAL CYCLE MOLDING  
INVENTOR(S): Sowden, et al.  
APP#: 09/966,497  
ATTY: S. E. Hayner TEL. #: 732-524-2242  
DOCKET #: MCP-0294 CUST. #: 000027777

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**FIG. 89**

